

## Cell Biology Antibodies



Abbexa is a supplier of biological tools, providing the scientific community with Primary Antibodies, Secondary Antibodies, Proteins and Peptides, ELISA kits and Enzymes as well as other kits and tools for use in research.

Working with various laboratories around the world, we aim to develop relevant, high quality, tested products for the biomedical research market.

# Flow Cytometry

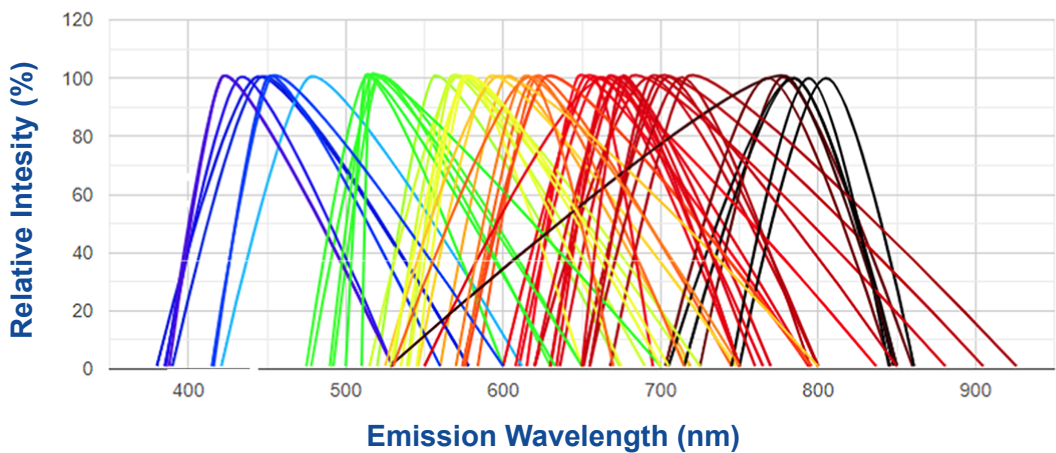
**Flow Cytometry** is a method used for the separation, classification and quantification of cells. Samples are suspended in fluid, and are then focused via computerised mechanisms into a mono-cellular stream which is passed through a beam of laser light. Through the measurement of scattered light, cells can be categorised by size, and subsequently by cell type.

Antibodies conjugated to both fluorescent dyes and fluorescent intercalating agents are often used to mark specific cell components; targets will display a fluorescent light emission which is proportional to the total target presence in the cell. Size analysis, in conjunction with counted fluorescent emission, enables the determination and characterisation of specific cellular subsets, even when the size of the cell is identical to other subset species. This provides a simultaneous multi-parameter analysis of single cells for the characterisation and definition of different cell types in heterogeneous cell populations.

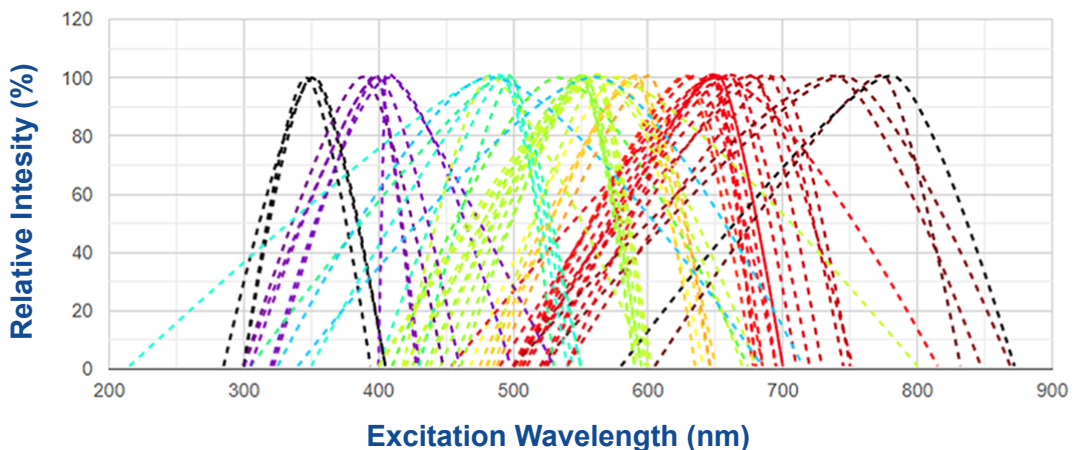
## Spectraviewer - Fluorescent Dyes

- AF350
- AF405
- AF488
- AF532
- AF555
- AF568
- AF594
- AF633
- AF647
- AF660
- AF680
- AF750
- AF790
- AMCA
- APC
- APC / C750
- APC / Cyanine 7
- ATTO 390
- ATTO 488
- ATTO 565
- ATTO 594
- ATTO 633
- ATTO 655
- ATTO 680
- ATTO 700
- CF-Blue
- Cyanine 3
- Cyanine 5
- Cyanine 7
- DIL
- DL 350
- DL 405
- DL 488
- DL 594
- DL 549
- DL 633
- DL 650
- DL 649
- DL 680
- DL 800
- FITC
- IF488
- IF555
- OC-515
- Pacific Blue
- PE
- PE / ATTO 594
- PE / Cyanine 5
- PE / Cyanine 5.5
- PE / Cyanine 7
- PE / DL 594
- PerCP
- PerCP / Cyanine 5.5
- Texas Red
- TRITC

### Fluorescence Spectraviewer - Emission



### Fluorescence Spectraviewer - Excitation



# Flow Cytometry

## Combination Antibodies

### abx200642

CD45RA/CD62L/CD3/CD4  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG3, IgG2a, IgG2a, IgG2a  
Conjugations: FITC, PE, PerCP, APC

### abx200643

CD45RA/CD62L/CD3/CD8  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG1, IgG2a, IgG2a, IgG1  
Conjugations: FITC, PE, PerCP, APC

### abx200640

CD45RA/CD45RO/CD3/CD4  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG1, IgG2a, IgG2a, IgG2a  
Conjugations: FITC, PE, PerCP, APC

### abx200641

CD45RA/CD45RO/CD3/CD8  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG1, IgG2a, IgG2a, IgG2a  
Conjugations: FITC, PE, PerCP, APC

### abx200596

CD3/CD4 combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG2a, IgG2a  
Conjugations: FITC, PE

### abx200637

CD103/CD22/CD20  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG1, IgG2a, IgG2a  
Conjugations: FITC, PE, PerCP

### abx200638

CD3/CD8/CD45/CD4  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG2a, IgG1, IgG1, IgG1  
Conjugations: FITC, PE, PE/Cyanine 5, APC

### abx200639

CD3/CD16+56/CD45/CD19  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG2a, IgG1, IgG1, IgG1, IgG2a  
Conjugations: FITC, PE, PE/Cyanine 5, APC

### abx200630

IC IgG1/IgG1/CD45  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG1, IgG1, IgG1  
Conjugations: FITC, PE, PerCP

### abx200600

CD4/CD8  
combination Antibody  
Reactivity: Human  
Host: Mouse  
Clonality: Monoclonal  
Tested Applications: FCM  
Isotype: IgG2a, IgG1  
Conjugations: FITC, PE

# Standard Loading Controls

**Loading controls** are typically proteins that exhibit high-level, constitutive expression in a specific cell type or sample.

- Loading controls can be used to quantify protein expression when lanes have been unevenly loaded.
- Highlight and correct the variation of edge effects.
- Check for equal transfer between gel and membrane in Western Blots.

They are crucial in producing reliable results when comparing levels of protein expression in different samples. Loading controls need to have a different molecular weight to the protein of interest (to allow clear, separate bands).

Whole Cell,  
Cytoskeleton

Alpha  
Tubulin

## abx005573

**Sizes:** 50µl, 100µl, 200µl  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IF/ICC  
**Immunogen:** Recombinant protein containing a sequence corresponding to amino acids 1-180 of human  $\alpha$ -Tubulin.

## abx019012

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat, Dog, Rabbit, Pig, Cat, Chicken, Sea Urchin, Algae  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB, IHC, IF/ICC, IP  
**Immunogen:** Purified human  $\alpha$ -Tubulin protein  
**Isotype:** IgG1

## abx230334

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC  
**Isotype:** IgG

## abx230335

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC, FCM, IP  
**Isotype:** IgG2b

Beta  
Tubulin

## abx025155

**Sizes:** 80µl, 400µl  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC  
**Immunogen:** Human TBB5 recombinant protein  
**Isotype:** IgG2b Kappa

# Standard Loading Controls

## Beta Actin

### abx132364

**Sizes:** 100µl, 200µl, 1ml  
**Reactivity:** Human  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** Recombinant Tubulin Beta (TUBb) (Val170-Val419) expressed in E. Coli  
**Isotype:** IgG2b Kappa

### abx019025

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat, Monkey, Hamster, Dog  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** ELISA, WB, IF/ICC  
**Immunogen:** Protein fragment on C-terminal of human β-Tubulin  
**Isotype:** IgG1

### abx139403

**Sizes:** 0.1mg  
**Reactivity:** Human, Pig, Mouse, Plant  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB, IHC-F, IF/ICC  
**Immunogen:** Beta-tubulin from porcine brain  
**Isotype:** IgM

### abx230869

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** actin, beta  
**Isotype:** IgG

### abx129303

**Sizes:** 100µl, 200µl, 1ml  
**Reactivity:** Human, Mouse, Rat, Guinea pig, Dog, Pig, Cow, Sheep, Horse, Chicken  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** abx166379 - Recombinant Beta Actin (ACTB) Protein (Met1-Phe375) expressed in E. coli

### abx105088

**Sizes:** 20µg, 50µg, 100µg, 200µg, 1mg  
**Reactivity:** Human  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA  
**Immunogen:** Recombinant human Actin, cytoplasmic 1 protein (102-375AA)  
**Isotype:** IgG  
**Conjugation:** Biotin

### abx106505

**Sizes:** 20µg, 50µg, 100µg, 200µg, 1mg  
**Reactivity:** Human  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA  
**Immunogen:** Recombinant human Actin, cytoplasmic 1 protein (102-375AA)  
**Isotype:** IgG  
**Conjugation:** FITC

### abx019022

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB  
**Immunogen:** A synthetic peptide (conjugated with KLH) corresponding to the region of Beta-Actin

## GAPDH

### abx104161

**Sizes:** 100µl, 200µl, 1ml  
**Reactivity:** Human  
**Host:** Human  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Isotype:** IgG

### abx019088

**Sizes:** 100µg  
**Reactivity:** Human, Monkey  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** ELISA, WB, IF/ICC  
**Immunogen:** A synthetic peptide (conjugated to KLH) corresponding to the C-terminal of human GAPDH  
**Isotype:** IgG1

### abx132411

**Sizes:** 100µl, 200µl, 1ml  
**Reactivity:** Human  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** abx066862 - Recombinant Glyceralde GAPDH (Gly2-Ser148) expressed in E. coli  
**Isotype:** IgG1 Kappa

### abx271816

**Sizes:** 200µl, 1ml  
**Reactivity:** Human  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IF/ICC  
**Immunogen:** Synthetic peptide from the mid-protein of human GAPDH  
**Conjugation:** ALP



# Standard Loading Controls

## Nuclear Histone H3

### abx129305

**Sizes:** 100µl, 200µl, 1ml  
**Reactivity:** Human, Mouse, Rat, Rabbit, Monkey, Dog, Cow, Horse, Chicken  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** H3 (Met1-Ala136)

### abx001905

**Sizes:** 20µl, 50µl, 100µl, 200µl  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, ChIP  
**Immunogen:** Recombinant protein of human Histone H3  
**Isotype:** IgG

### abx134291

**Sizes:** 30µl, 100µl, 200µl  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB  
**Immunogen:** Recombinant protein corresponding to human Histone H3  
**Isotype:** IgG

### abx329317

**Sizes:** 50µg, 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC  
**Immunogen:** Synthesized peptide derived from human Histone H3 around the non-phosphorylation site of S10.  
**Isotype:** IgG

### abx329592

**Sizes:** 50µg, 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC  
**Immunogen:** Synthesized peptide derived from human Histone H3 around the non-acetylation site of K14  
**Isotype:** IgG

## Lamin B1

### abx234682

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC  
**Immunogen:** Lamin B1  
**Isotype:** IgG  
**Molecular Weight:** 70 kDa

### abx431391

**Sizes:** 200µl  
**Reactivity:** Human  
**Host:** Goat  
**Clonality:** Polyclonal  
**Tested Applications:** P-ELISA, WB  
**Immunogen:** Internal region (near C-Terminus), 526-537 AA: C-DVKVILKNSQGE  
**Isotype:** IgG

### abx314423

**Sizes:** 20µg, 50µg, 100µg, 200µg, 1mg  
**Reactivity:** Human  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA  
**Immunogen:** Recombinant human Lamin-B1 protein (385-552AA)  
**Isotype:** IgG  
**Conjugation:** FITC

### abx314422

**Sizes:** 20µg, 50µg, 100µg, 200µg, 1mg  
**Reactivity:** Human  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA  
**Immunogen:** Recombinant human Lamin-B1 protein (385-552AA)  
**Isotype:** IgG  
**Conjugation:** HRP

# Standard Loading Controls

## Mitochondria

### VDAC1

#### abx327722

**Sizes:** 50µg, 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB  
**Immunogen:** Synthesized peptide derived from the N-terminal region of human VDAC1  
**Isotype:** IgG

#### abx132362

**Sizes:** 100µl, 200µl, 1ml  
**Reactivity:** Human  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** Recombinant Voltage Dependent Anion Channel Protein 1 (VDAC1) (Ala2-Ala283) expressed in E. coli  
**Isotype:** IgG2b Kappa

#### abx445067

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** Fusion protein amino acids 1-283 (full-length) of human VDAC1. Mouse: 98% identity (279/283 amino acids identical). Rat: 98% identity (279/283 amino acids identical) >60% identity with VDAC2 and VDAC3.

#### abx441059

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Mouse | **Clonality:** Monoclonal  
**Tested Applications:** WB, IHC, IF/ICC  
**Immunogen:** Fusion protein amino acids 1-283 (full-length) of human VDAC1. Mouse: 98% identity (279/283 amino acids identical). Rat: 98% identity (279/283 amino acids identical) >60% identity with VDAC2 and VDAC3.  
**Conjugation:** ATTO594

### COXIV (COX4)

#### abx231913

**Sizes:** 100µg  
**Reactivity:** Human, Mouse  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC, FCM  
**Isotype:** IgG1

#### abx231912

**Sizes:** 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC, FCM, IP  
**Immunogen:** cytochrome c oxidase subunit IV isoform 1  
**Immunogen:** IgG

#### abx010615

**Sizes:** 100µl  
**Reactivity:** Human, Monkey, Rat, Mouse  
**Host:** Mouse  
**Clonality:** Monoclonal  
**Tested Applications:** ELISA, WB, IF/ICC, FCM  
**Immunogen:** Purified recombinant fragment of human COX411 expressed in E. coli  
**Isotype:** IgG1

#### abx037436

**Sizes:** 100µg  
**Reactivity:** Human  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB  
**Immunogen:** A peptide corresponding to the N-terminal region of human COX iv protein  
**Isotype:** IgG

# Standard Loading Controls

## Mitochondria TOMM20

### abx005196

**Sizes:** 20µl, 50µl, 100µl, 200µl  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** WB, IHC, IF/ICC, IP  
**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 1-145 of human TOM20  
**Isotype:** IgG

### abx014600

**Sizes:** 10µg, 100µg, 200µg, 300µg, 1mg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB  
**Immunogen:** The antiserum was produced against synthesized peptide derived from internal of human TOMM20  
**Isotype:** IgG

### abx116213

**Sizes:** 100µl  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC  
**Immunogen:** Human TOM20  
**Isotype:** IgG

### abx322332

**Sizes:** 50µl, 100µl  
**Reactivity:** Human, Mouse  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB, IHC, IF/ICC  
**Immunogen:** Recombinant human Mitochondrial import receptor subunit TOM20 homolog protein (20-145AA).  
**Isotype:** IgG

### abx327887

**Sizes:** 50µg, 100µg  
**Reactivity:** Human, Mouse, Rat  
**Host:** Rabbit  
**Clonality:** Polyclonal  
**Tested Applications:** ELISA, WB  
**Immunogen:** Synthesized peptide derived from the internal region of human TOM20  
**Isotype:** IgG