abcam

Product datasheet

FITC Anti-M6PR (cation independent) antibody [MEM-238] ab58841

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Overview

Product name	FITC Anti-M6PR (cation independent) antibody [MEM-238]
Description	FITC Mouse monoclonal [MEM-238] to M6PR (cation independent)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** Flow Cyt, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human **Predicted to work with:** Non human primates
Immunogen	Tissue, cells or virus corresponding to Human M6PR (cation independent). Database link: **P11717**
Epitope	ab58841 recognizes an epitope between domains 2 and 5 of Mannose 6 Phosphate Receptor (Cation independent) (CD222).
Positive control	Flow Cyt: Human Peripheral whole blood, HeLa cells. Flow Cyt (Intra): HeLa Cells.
General notes	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA

Purity	Size exclusion
Purification notes	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Clonality	Monoclonal
Clone number	MEM-238
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab58841 in the following tested applications.

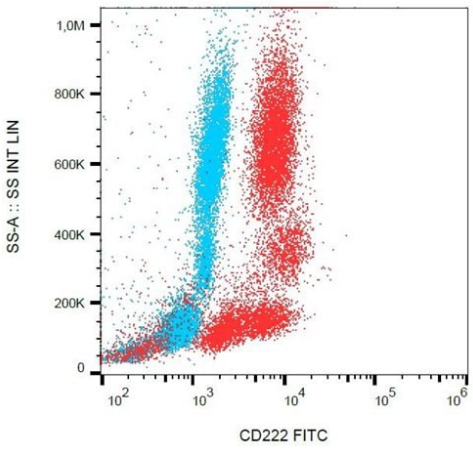
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 8.3µl for 10^6 cells. **ab91356** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
Flow Cyt (Intra)		Use 1µg for 10^6 cells. **ab91356** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

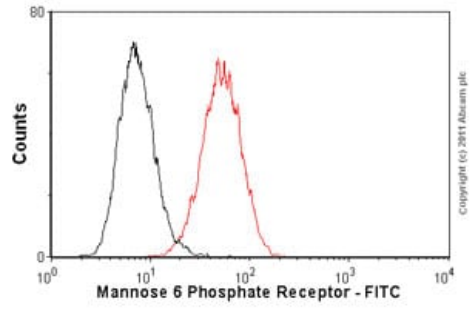
Function	Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelyosomal compartment where the low pH mediates the dissociation of the complex. This receptor also binds IGF2. Acts as a positive regulator of T-cell coactivation, by binding DPP4.
Sequence similarities	Belongs to the MRL1/IGF2R family. Contains 1 fibronectin type-II domain.
Domain	Contains 15 repeating units of approximately 147 AA harboring four disulfide bonds each. The most highly conserved region within the repeat consists of a stretch of 13 AA that contains cysteines at both ends.
Cellular localization	Lysosome membrane. Colocalized with DPP4 in internalized cytoplasmic vesicles adjacent to the cell surface.

Images



Flow Cytometry - FITC Anti-M6PR (cation independent) antibody [MEM-238] (ab58841)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD222 (MEM-238) FITC antibody (ab58841) (red, concentration in sample 3 µg/ml) and mouse IgG1 isotype control (MOPC-21) FITC antibody (blue, concentration in sample 3 µg/ml).



Flow Cytometry (Intracellular) - FITC Anti-M6PR (cation independent) antibody [MEM-238] (ab58841)

Overlay histogram showing HeLa cells stained with ab58841 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab58841, 1µg/1x10^6 cells) for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 (1µg/1x10^6 cells). Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.

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