


Anti-M6PR (cation independent) antibody ab12894

★★★★☆ [6 Abreviews](#) [5 References](#) [2 Images](#)

Overview

Product name	Anti-M6PR (cation independent) antibody
Description	Rabbit polyclonal to M6PR (cation independent)
Host species	Rabbit
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Monkey, African green monkey 
Immunogen	Synthetic peptide corresponding to Human M6PR (cation independent) aa 700-800 (internal sequence) conjugated to keyhole limpet haemocyanin. (Peptide available as ab13210)
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab12894 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
ICC/IF	★★★★☆ (3)	Use a concentration of 4 µg/ml. This antibody worked well in IF in HeLa cells but not in SK-N-SH cells.

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 prelysosomal 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.

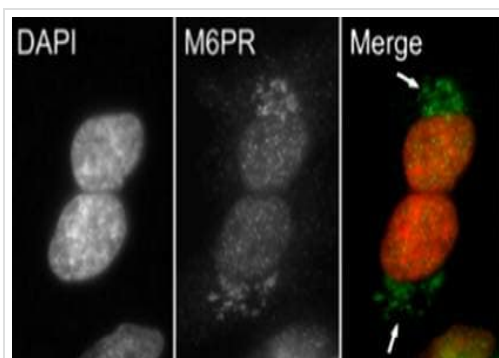
Domain

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.

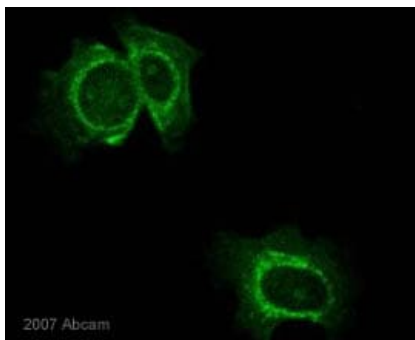
Images



HeLa cells labelled with anti-mannose-6-phosphate receptor (ab12894). ab12894 was used at a working concentration of 4µg/ml. The arrows indicate the perinuclear location of the mannose-6-phosphate receptor in the late endosomes. In the final panel DAPI is pseudo-coloured red, while the mannose-6-phosphate receptor is in green.

Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody (ab12894)

This image was submitted as part of a review by Kirk McManus, University of British Columbia



ab12894 at 1/100 staining human MCF-7 cells by ICC/IF. The cells were methanol fixed and blocked with BSA prior to incubation with the antibody for 1 hour. A goat anti-rabbit FITC was used as the secondary.

Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody (ab12894)

This image is courtesy of an anonymous Abreview

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