abcam

Product datasheet

Anti-M6PR (cation dependent) antibody [EPR7691] ab134153

KO 評価済 リコンビナント RabMAb

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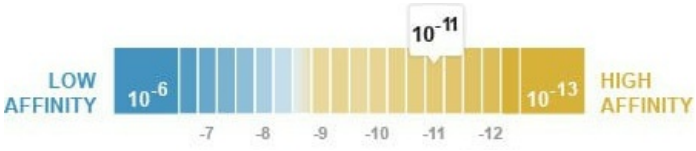
製品の概要

製品名	Anti-M6PR (cation dependent) antibody [EPR7691]
製品の詳細	Rabbit monoclonal [EPR7691] to M6PR (cation dependent)
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, ICC/IF **適用なし:** IHC-P
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human M6PR (cation dependent) aa 250 to the C-terminus (C terminal). Database link: **P20645**
ポジティブ・コントロール	WB: HAP1, A549, and Human uterus lysates ICC/IF: HeLa cell lysate Flow Cyt (intra): A549 cells
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
解離定数（K_D 値）	$K_D = 6.30 \times 10^{-11}$ M



Learn more about K_D

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR7691
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab134153の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/80.
WB	★★★☆☆ (1)	1/1000 - 1/10000. Predicted molecular weight: 31 kDa.
ICC/IF	★★★★☆ (1)	1/50 - 1/100.

追加情報 Is unsuitable for IHC-P.

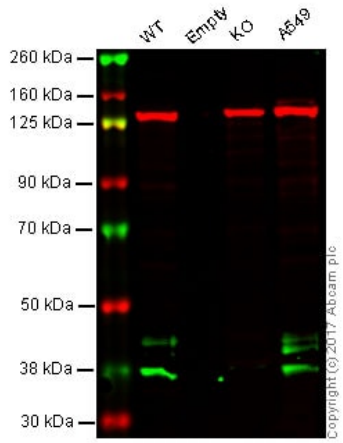
ターゲット情報

機能 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.

ドメイン The extracellular domain is homologous to the repeating units (of approximately 147 AA) of the cation-independent mannose 6-phosphate receptor.

細胞内局在 Lysosome membrane.

画像

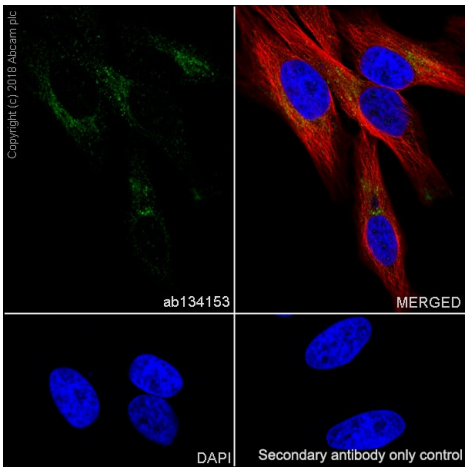


Western blot - Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: Empty
Lane 3: M6PR knockout HAP1 whole cell lysate (20 µg)
Lane 4: A549 whole cell lysate (20 µg)

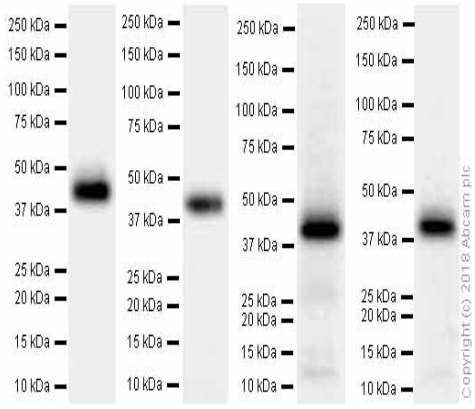
Lanes 1 - 4: Merged signal (red and green). Green - unpurified ab134153 observed at 46 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab134153 was shown to specifically react with M6PR when M6PR knockout samples were used. Wild-type and M6PR knockout samples were subjected to SDS-PAGE. ab134153 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling M6PR (cation dependent) with Purified ab134153 at 1:100 dilution (8.6 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor®594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153)

All lanes : Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153) at 0.8 µg/ml (purified)

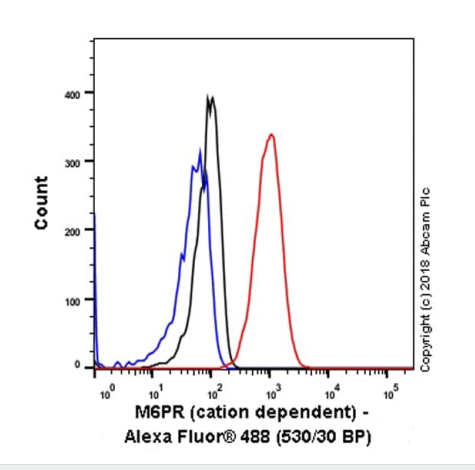
Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell lysates
Lane 2 : Mouse kidney lysates
Lane 3 : Rat kidney lysates
Lane 4 : Rat spleen lysates

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

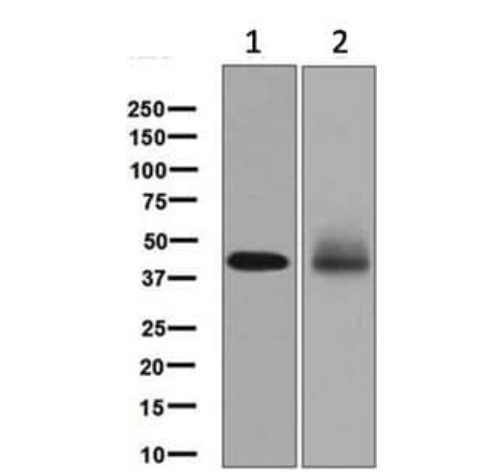
Predicted band size: 31 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153)

Intracellular Flow Cytometry analysis of A549 (Human lung carcinoma epithelial cell) cells labeling M6PR (cation dependent) with purified ab134153 at 1/80 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153)

All lanes : Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153) at 1/1000 dilution (Unpurified)

Lane 1 : A549 lysates

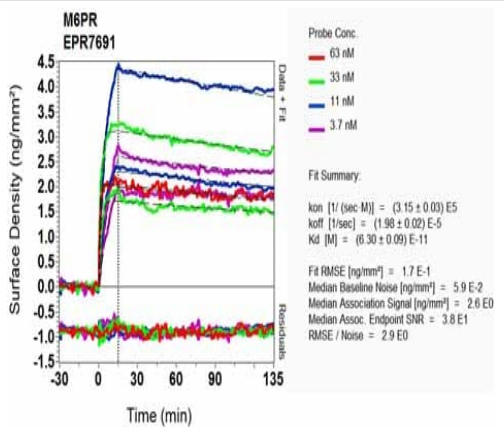
Lane 2 : Human uterus lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 31 kDa



OI-RD Scanning - Anti-M6PR (cation dependent) antibody [EPR7691] (ab134153)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-M6PR (cation dependent) antibody [EPR7691]

(ab134153)

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