


Anti-M6PR (cation independent) antibody [2G11] ab2733

KO 評価済

★★★★★ [18 Abreviews](#) [123 References](#) [画像数 6](#)

製品の概要

製品名	Anti-M6PR (cation independent) antibody [2G11]
製品の詳細	Mouse monoclonal [2G11] to M6PR (cation independent)
由来種	Mouse
アプリケーション	適用あり: ICC/IF, Flow Cyt (Intra) 適用なし: WB
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat, Cow, Non human primates, African green monkey  非交差種: Hamster
免疫原	Full length protein. This information is proprietary to Abcam and/or its suppliers.
エピトープ	This antibody is shown to recognize an epitope in the extracellular domain of Mannose 6 Phosphate Receptor.
ポジティブ・コントロール	Flow Cyt (Intra): A431 cells. ICC/IF: HAP1 cells (HAP1-IGF2R knockout cells used as negative cell line).
特記事項	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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>

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 or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.40

	Preservative: 0.02% Sodium azide
	Constituents: PBS, 6.97% L-Arginine
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	2G11
アイソタイプ	IgG2a

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ab2733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。

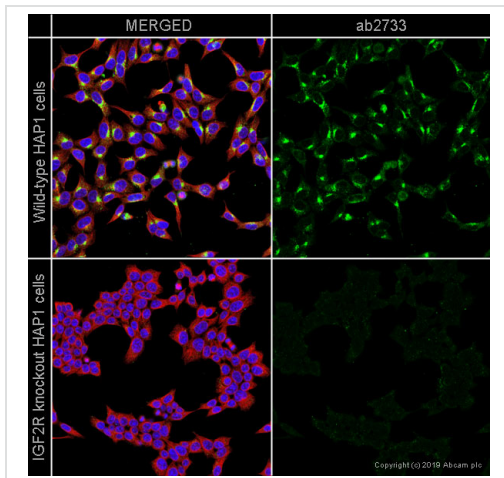
アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (15)	Use a concentration of 1 - 10 µg/ml.
Flow Cyt (Intra)		Use 1µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

追加情報 Is unsuitable for WB.

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 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.
配列類似性	Belongs to the MRL1/IGF2R family. Contains 1 fibronectin type-II domain.
ドメイン	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.
細胞内局在	Lysosome membrane. Colocalized with DPP4 in internalized cytoplasmic vesicles adjacent to the cell surface.

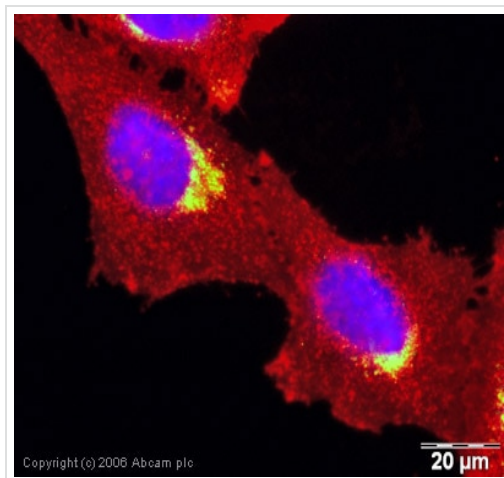
画像



Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody [2G11] (ab2733)

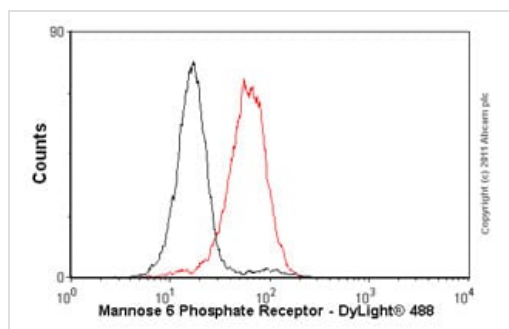
ab2733 staining IGF2R in wild-type HAP1 cells (top panel) and IGF2R knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab2733 at 1ug/ml and **ab6046** (Tubulin) at 1/1000 dilution overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to mouse IgG (Alexa Fluor® 488) (**ab150117**) at 2 µg/ml (shown in green) and a goat secondary antibody to rabbit IgG (Alexa Fluor® 594) (**ab150080**) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



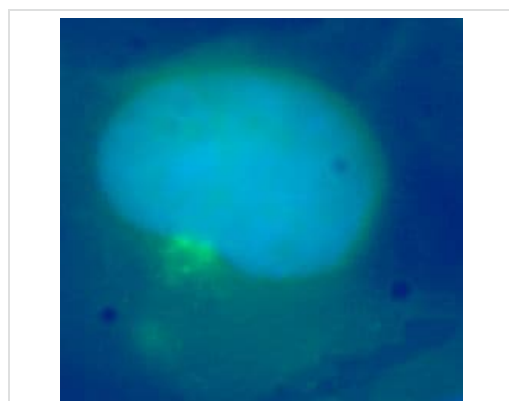
Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody [2G11] (ab2733)

ICC/IF image of ab2733 stained human HeLa cells. The cells were methanol fixed (5 min) and incubated with the antibody (ab2733, 1µg/ml) for 1h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Image-iT™ FX Signal Enhancer was used as the primary blocking agent, 5% BSA (in TBS-T) was used for all other blocking steps. DAPI was used to stain the cell nuclei (blue). Alexa Fluor® 594 WGA was used to label plasma membranes (red).



Flow Cytometry (Intracellular) - Anti-M6PR (cation independent) antibody [2G11] (ab2733)

Overlay histogram showing HeLa cells stained with ab2733 (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 (ab2733, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

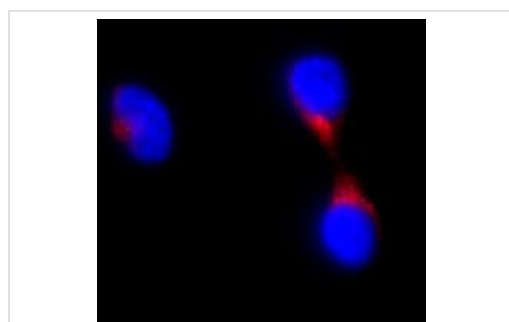


Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody [2G11] (ab2733)

Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK

Immunofluorescent imaging of human cells (U2OS) with ab2733 confirms the specificity of this antibody, with the expected perinuclear vesicular staining of lysosomes.

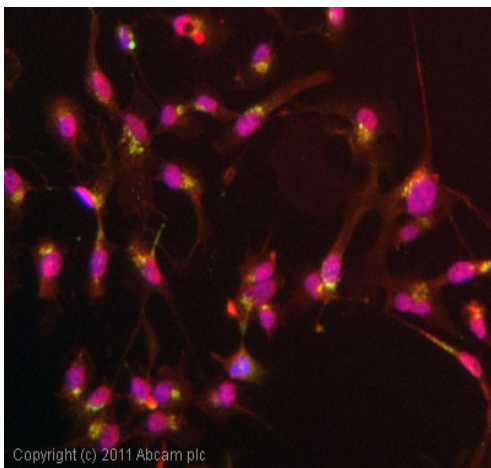
IF was performed with a standard paraformaldehyde technique (fixed in PBS buffered PFH 4% for 5 minutes, permeabilised with 0.5% triton-PBS for 5 minutes, blocked with 5% milk / 0.2% tween for one hour. Primary antibody used at 1/100 in 5% milk / 0.2% TWEEN for one hour, secondary antibody for 30 minutes. All blocking and incubation steps carried out at 37 degrees.



Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody [2G11] (ab2733)

ab2733 positively staining formaldehyde fixed Human HEK 293 cells (red) in conjunction with goat anti mouse (Alexa 546). Nuclear staining was obtained using Hoechst.

This image is an edited version of an image received courtesy of an Abreview submitted by **Kun Liu on 19 September 2005**. We do not have any further information relating to this image.



Immunocytochemistry/ Immunofluorescence - Anti-M6PR (cation independent) antibody [2G11] (ab2733)

ICC/IF image of ab2733 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2733, 10µg/ml) overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-mouse IgG - H&L, pre-adsorbed (**ab96879**) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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