Datasheet for ABIN3044000

anti-IGF2R antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	IGF2R
Binding Specificity:	AA 2475-2491, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cation-independent mannose-6-phosphate receptor(IGF2R) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Mannose 6 Phosphate Receptor(Cation independent)(2475-2491aa TKLVSFHDDSDEDLLHI), different from the related rat and mouse sequences by one amino acid.
Sequence:	TKLVSFHDDS DEDLLHI
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Cation-independent mannose-6-phosphate receptor(IGF2R) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: insulin-like growth factor 2 receptor Protein Name: Cation-independent mannose-6-phosphate receptor
Purification:	Immunogen affinity purified.

Target Details

Target:	IGF2R
Alternative Name:	IGF2R (IGF2R Products)
Background:	Insulin-like growth factor 2 receptor, also called IGF2R or I-MPR is a protein that in humans is encoded by the IGF2R gene. This gene is mapped to 6q25.3. This gene encodes a receptor for both insulin-like growth factor 2 and mannose 6-phosphate, although the binding sites for either are located on different segments of the receptor. This receptor functions in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of insulin-like growth factor 2. While the related mouse gene shows exclusive expression from the maternal allele, imprinting of the human gene appears to be polymorphic, with only a minority of individuals showing expression from the maternal allele. Synonyms: 300 kDa mannose 6 phosphate receptor antibody|300 kDa mannose 6-phosphate receptor antibody|Cation independent mannose 6 phosphate receptor antibody|Cation-independent mannose-6-phosphate receptor antibody|CD222 antibody|CD222 antigen antibody|CI Man 6 P receptor antibody|CI Man-6-P receptor antibody|CI MPR antibody|CI-MPR antibody|CIMPR antibody|IGF 2 receptor antibody|IGF 2R antibody|IGF II receptor antibody|IGF-II receptor antibody|IGF2 receptor antibody|IGF2R antibody|Insulin like growth factor 2 receptor antibody|Insulin like growth factor II receptor antibody|Insulin-like growth factor 2 receptor antibody|Insulin-like growth factor II receptor antibody|M6P R antibody|M6P/IGF2 receptor antibody|M6P/IGF2R antibody|M6PR antibody|MPR 300 antibody|MPR300 antibody|MPRI antibody|MPRI_HUMAN antibody
UniProt:	P11717

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,

Application Details

	Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

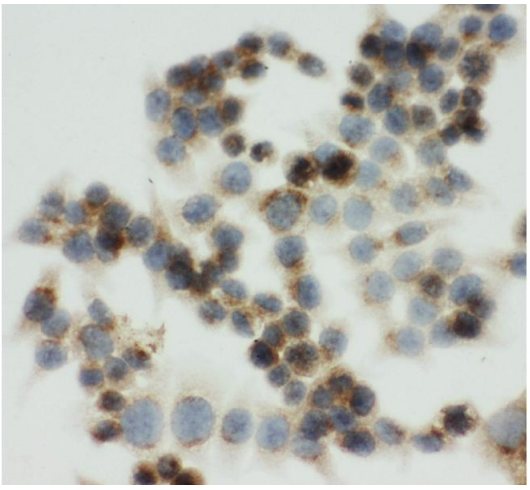
Publications

Product cited in:	Liu, Hong, Li, Ren, Wang, Xu, Shi, Xu: "A Cross Talk Between BRG1 and Males Absent on the First Contributes to Reactive Oxygen Species Production in a Mouse Model of Nonalcoholic Steatohepatitis." in: **Antioxidants & redox signaling**, (2018) (PubMed).

Publications

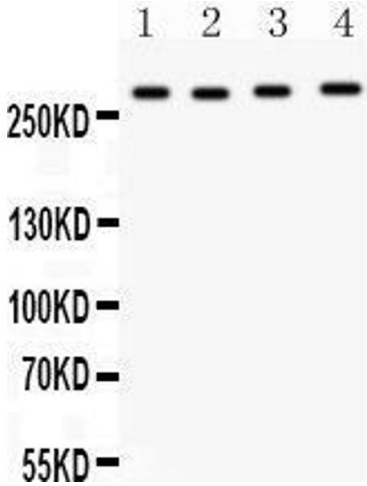
Meyer, Fredette, Daniel, Sharma, Amann, Arterburn, Barton, Prossnitz: "Obligatory role for GPER in cardiovascular aging and disease." in: **Science signaling**, Vol. 9, Issue 452, pp. ra105, (2017) (PubMed).

Images



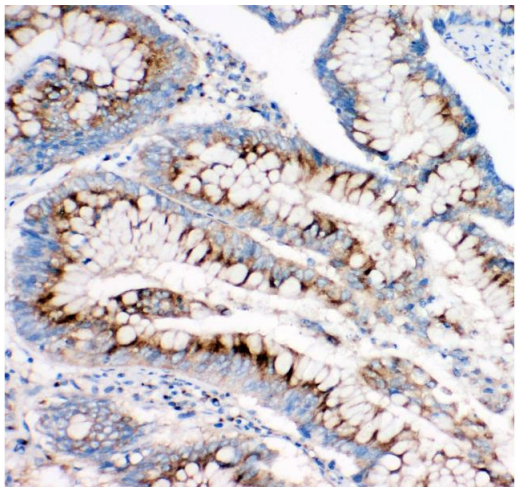
Immunohistochemistry

Image 1. Anti-Mannose 6 Phosphate Receptor(Cation independent) antibody, ICC ICC: HCT116 Cell



Western Blotting

Image 2. Anti-Mannose 6 Phosphate Receptor(Cation independent) antibody, Western blotting All lanes: Anti Mannose 6 Phosphate Receptor (Cation independent) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug Lane 3: 22RV1 Whole Cell Lysate at 40ug Lane 4: 293T Whole Cell Lysate at 40ug Predicted bind size: 274KD Observed bind size: 274KD



Immunohistochemistry

Image 3. Anti-Mannose 6 Phosphate Receptor(Cation independent) antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue