

Rabbit anti-Mouse, Rat Mannose 6 Phosphate Receptor/Igf2r Polyclonal Antibody | anti-Igf2r antibody

Anti-Mannose 6 Phosphate Receptor/Igf2r Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124913	Rabbit	Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Mannose 6 Phosphate Receptor/Igf2r; Polyclonal Antibody; Anti-Mannose 6 Phosphate Receptor/Igf2r Antibody; Cation-independent mannose-6-phosphate receptor; CI Man-6-P receptor; CI-MPR; M6PR; 300 kDa mannose 6-phosphate receptor; MPR 300; Insulin-like growth factor 2 receptor; Insulin-like growth factor II receptor; IGF-II receptor; M6P/IGF2 receptor; M6P/IGF2R; CD222; Igf2r; anti-Igf2r antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	2,483
Applicable Applications for anti-Igf2r antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of mouse Igf2r (EKARKGKFRP GQRKPTAPAKLVSFHDDSDDLLH).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 1. Western blot analysis of Igf2r using anti-Igf2r antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse brain tissue lysates, Lane 2: mouse lung tissue lysates, Lane 3: mouse NIH3T3 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat lung tissue lysates, Lane 6: rat stomach tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Igf2r antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Igf2r at approximately 300KD. The expected band size for Igf2r is at 274KD.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Igf2r using anti-Igf2r antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse brain tissue lysates, Lane 2: mouse lung tissue lysates, Lane 3: mouse NIH3T3 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat lung tissue lysates, Lane 6: rat stomach tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Igf2r antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Igf2r at approximately 300KD. The expected band size for Igf2r is at 274KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Igf2r antibody	Description: Rabbit IgG polyclonal antibody for Igf2r detection. Tested with WB, IHC-P in Mouse; Rat. 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.
References	1. Killian, J. K., Oka, Y., Jang, H.-S., Fu, X., Waterland, R. A., Sohda, T., Sakaguchi, S., Jirtle, R. L. Mannose 6-phosphate/insulin-like growth factor 2 receptor (M6P/IGF2R) variants in American and Japanese populations. Hum. Mutat. 18: 25-31, 2001. 2. Latos, P. A., Pauler, F. M., Koerner, M. V., Senergin, H. B., Hudson, Q. J., Stocsits, R. R., Allhoff, W., Stricker, S. H., Klement, R. M., Warczok, K. E., Aumayr, K., Pasierbek, P., Barlow, D. P. Airn transcriptional overlap, but not its lncRNA products, induces imprinted Igf2r silencing. Science 338: 1469-1472, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	133778978
NCBI GeneID	16004
NCBI Accession #	NP_034645.2
NCBI GenBank Nucleotide #	NM_010515.2
UniProt Accession #	Q07113; Q61822; Q6LED1
Molecular Weight	273,815 Da
NCBI Official Full Name	cation-independent mannose-6-phosphate receptor
NCBI Official Synonym Full Names	insulin-like growth factor 2 receptor
NCBI Official Symbol	Igf2r
NCBI Official Synonym Symbols	CD222; CI-MPR; Mpr300; AI661837; M6P/IGF2R
NCBI Protein Information	cation-independent mannose-6-phosphate receptor
UniProt Protein Name	Cation-independent mannose-6-phosphate receptor
UniProt Gene Name	Igf2r

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mannose-6-phosphate-receptor-igf2r-antibody-immunohistochemistry-western-blot-elisa/124913>