

Anti-Mannose 6 Phosphate Receptor/Igf2r Antibody Picoband™

Catalog Number: A00951-1

About Igf2r

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.

Overview

Product Name	Anti-Mannose 6 Phosphate Receptor/Igf2r Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Mannose 6 Phosphate Receptor/Igf2r Antibody Picoband™ catalog # A00951-1. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q07113

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Igf2r, which shares 70.6% and 94.1% amino acid (aa) sequence identity with human and rat Igf2r, respectively.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml</p>

Anti-Mannose 6 Phosphate Receptor/Igf2r Antibody Picoband™ (A00951-1) Images

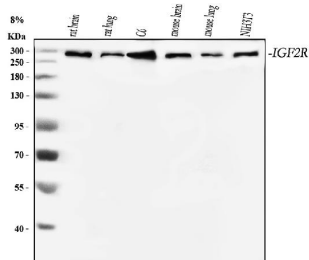


Figure 1. Western blot analysis of Igf2r using anti-Igf2r antibody (A00951-1).

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 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: rat lung tissue lysates,

Lane 3: rat C6 whole cell lysates,

Lane 4: mouse brain tissue lysates,

Lane 5: mouse lung tissue lysates,

Lane 6: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 (Catalog # A00951-1) at 0.5 ug/mL overnight at 4°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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit

(Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Igf2r at approximately 274 kDa. The

expected band size for Igf2r is at 274 kDa.

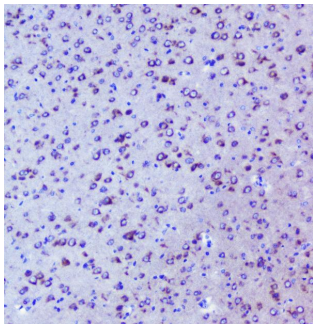


Figure 2. IHC analysis of Igf2r using anti-Igf2r antibody (A00951-1).

Igf2r was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins.

The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-

Igf2r Antibody (A00951-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and

incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog

SA1022) with DAB as the chromogen.

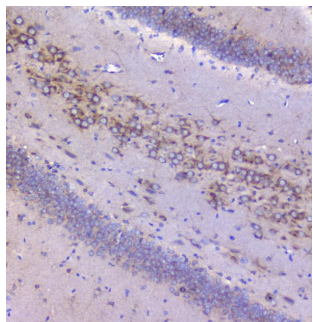


Figure 3. IHC analysis of Igf2r using anti-Igf2r antibody (A00951-1).

Igf2r was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins.

The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-

Igf2r Antibody (A00951-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and

incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog

SA1022) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 22720981, Insulin-like growth factors in endometrioid adenocarcinoma: Correlation with clinico-pathological features and estrogen receptor expression

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