

IGF2R (Phospho-Ser2409) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52445**Specification**

IGF2R (Phospho-Ser2409) Antibody - Product Information

Application	WB, IHC
Primary Accession	P11717
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	274375

IGF2R (Phospho-Ser2409) Antibody - Additional Information**Gene ID** 3482**Other Names**

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, MPRI

Dilution

WB~~1:1000
IHC~~1:50~100

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

IGF2R (Phospho-Ser2409) Antibody - Protein Information**Name** IGF2R**Synonyms** MPRI**Function**

Mediates the transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes (PubMed: [18817523](http://www.uniprot.org/citations/18817523), PubMed: [2963003](http://www.uniprot.org/citations/2963003)). 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 (PubMed: [18817523](http://www.uniprot.org/citations/18817523), PubMed: [18817523](http://www.uniprot.org/citations/18817523), PubMed: [18817523](http://www.uniprot.org/citations/18817523)

href="http://www.uniprot.org/citations/2963003" target="_blank">2963003). The receptor is then recycled back to the Golgi for another round of trafficking through its binding to the retromer (PubMed:18817523). This receptor also binds IGF2 (PubMed:18046459). Acts as a positive regulator of T-cell coactivation by binding DPP4 (PubMed:10900005).

Cellular Location

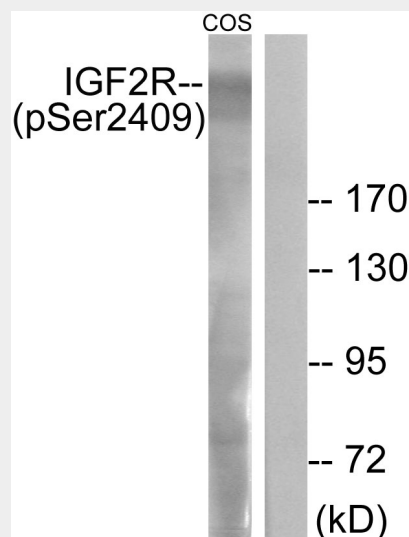
Golgi apparatus membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Note=Mainly localized in the Golgi at steady state and not detectable in lysosome (PubMed:18817523) Colocalized with DPP4 in internalized cytoplasmic vesicles adjacent to the cell surface (PubMed:10900005).

IGF2R (Phospho-Ser2409) Antibody - Protocols

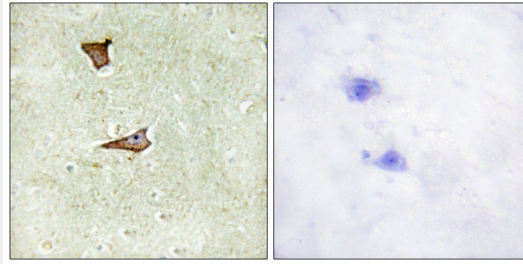
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IGF2R (Phospho-Ser2409) Antibody - Images



Western blot analysis of extracts from COS-7 cells, treated with UV (15mins), using IGF2R (Phospho-Ser2409) antibody.



Immunohistochemistry analysis of paraffin-embedded human brain tissue using IGF2R (Phospho-Ser2409) antibody.

IGF2R (Phospho-Ser2409) Antibody - Background

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.

IGF2R (Phospho-Ser2409) Antibody - References

- Morgan D.O., et al. Nature 329:301-307(1987).
- Oshima A., et al. J. Biol. Chem. 263:2553-2562(1988).
- Gemma A., et al. Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.
- Killian J.K., et al. Mamm. Genome 10:74-77(1999).
- Mungall A.J., et al. Nature 425:805-811(2003).