



IGF-IIR (phospho Ser2409) Polyclonal Antibody

Catalog No	YP-Ab-13042
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	IGF2R
Protein Name	Cation-independent mannose-6-phosphate receptor
Immunogen	The antiserum was produced against synthesized peptide derived from human IGF2R around the phosphorylation site of Ser2409. AA range:2381-2430
Specificity	Phospho-IGF-IIR (S2409) Polyclonal Antibody detects endogenous levels of IGF-IIR protein only when phosphorylated at S2409.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IGF2R; MPRI; 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;
Observed Band	300kD
Cell Pathway	Golgi apparatus membrane ; Single-pass type I membrane protein . Endosome membrane ; Single-pass type I membrane protein . 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) .
Tissue Specificity	Brain,Epithelium,Liver,
Function	domain:Contains 15 repeating units of approximately 147 AA. The most highly conserved region within the repeat consists of a stretch of 13 AA that contains cysteines at both ends.,function: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.,similarity:Belongs to



the MRL1/IGF2R family.,similarity:Contains 1 fibronectin type-II domain.,subunit:Binds GGA1, GGA2 and GGA3.,

Background

This gene encodes a receptor for both insulin-like growth factor 2 and mannose 6-phosphate. The binding sites for each ligand are located on different segments of the protein. This receptor has various functions, including in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of insulin-like growth factor 2. Mutation or loss of heterozygosity of this gene has been association with risk of hepatocellular carcinoma. The orthologous mouse gene is imprinted and shows exclusive expression from the maternal allele; however, imprinting of the human gene may be polymorphic, as only a minority of individuals showed biased expression from the maternal allele (PMID:8267611). [provided by RefSeq, Nov 2015],

matters needing attention

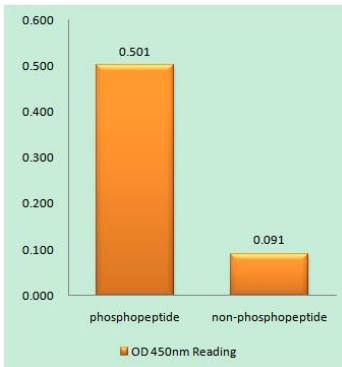
Avoid repeated freezing and thawing!

Usage suggestions

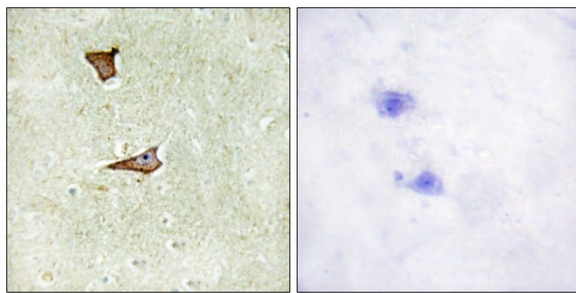
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



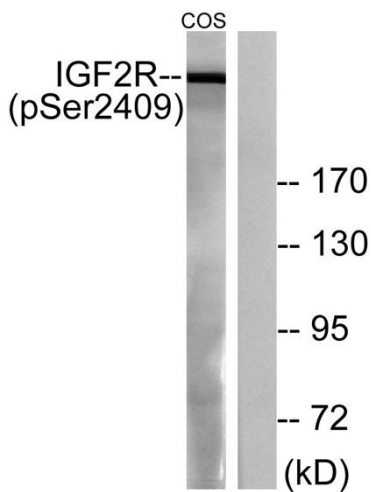
Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IGF2R (Phospho-Ser2409) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using IGF2R (Phospho-Ser2409) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with UV 15', using IGF2R (Phospho-Ser2409) Antibody. The lane on the right is blocked with the phospho peptide.