



IGF-IR (phospho Tyr1161) Polyclonal Antibody

Catalog No	YP-Ab-13048
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	IGF1R
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human IGF-IR (phospho Tyr1161)
Specificity	Phospho-IGF-IR (Y1161) Polyclonal Antibody detects endogenous levels of IGF-IR protein only when phosphorylated at Y1161.
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	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IGF-1R;IGF1R;Insulin-like growth factor 1 receptor;Insulin-like growth factor I receptor;IGF-I receptor;CD antigen CD221;INSR;Insulin receptor;IR;CD antigen CD220
Observed Band	pro: 155kD, recetor beta: 95kD
Calculated Molecular Weight	pro: 155kD, recetor beta: 95kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	Found as a hybrid receptor with INSR in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibroblasts, spleen and placenta (at protein level). Expressed in a variety of tissues. Overexpressed in tumors, including melanomas, cancers of the colon, pancreas prostate and kidney.
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in IGF1R may be a cause in some cases of resistance to insulin-like growth factor 1 (IGF1 resistance) [MIM:270450]. IGF1 resistance is a growth deficiency disorder characterized by intrauterine growth retardation and poor postnatal growth accompanied with increased plasma



IGF1.,enzyme regulation:Autophosphorylation activates the kinase activity.,
function:This receptor binds insulin-like growth factor 1 (IGF1) with a high affinity
and IGF2 with a lower affinity. It has a tyrosine-protein kinase activity, which is
necessary for the activation of the IGF1-stimulated downstream signaling
cascade. When present in a hybrid receptor with INSR, binds IGF1.
PubMed:12138094 shows that hybrid receptors composed of IGF1R and INSR
isoform Long are activated with a high affinity by IGF1, with low a

Background

This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014],

matters needing attention

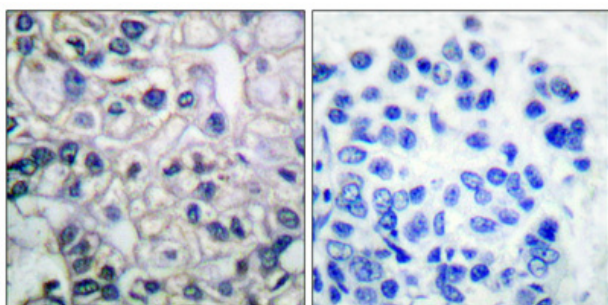
Avoid repeated freezing and thawing!

Usage suggestions

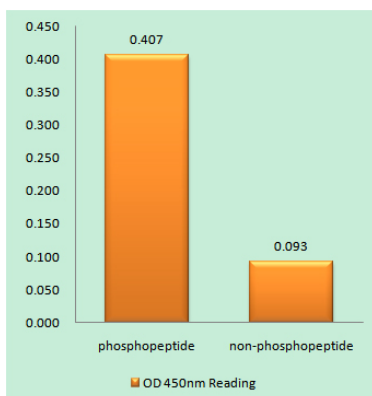
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



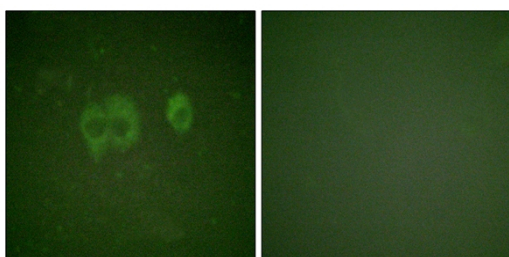
Products Images



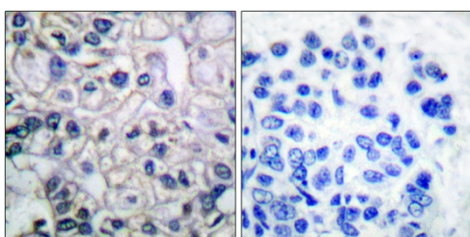
Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



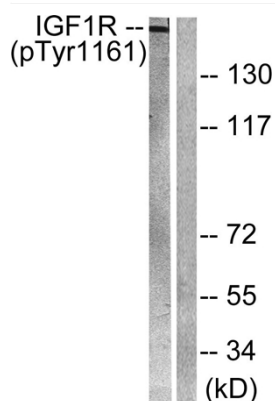
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IGF1R (Phospho-Tyr1161) Antibody



Immunofluorescence analysis of HuvEc cell, using IGF1R (Phospho-Tyr1161) Antibody. The lane on the right is blocked with the IGF1R (Phospho-Tyr1161) peptide.



Immunohistochemistry analysis of paraffin-embedded human breast cancer, using IGF1R (Phospho-Tyr1161) Antibody. The picture on the right is blocked with the IGF1R (Phospho-Tyr1161) peptide.



Western blot analysis of IGF1R (Phospho-Tyr1161) Antibody. The lane on the right is blocked with the IGF1R (Phospho-Tyr1161) peptide.