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Datasheet for ABIN6256637 anti-IGF1R antibody (pTyr1346)

8 Images



Overview

Quantity:	100 µL
Target:	IGF1R
Binding Specificity:	pTyr1346
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGF1R antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human IGF1 Receptor around the phosphorylation site of Tyr1346.
Isotype:	lgG
Specificity:	Phospho-IGF1 Receptor (Tyr1346) Antibody detects endogenous levels of IGF1 Receptor only when phosphorylated at Tyrosine 1346.
Predicted Reactivity:	Pig,Bovine,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

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Target Details	
Target:	IGF1R
Alternative Name:	IGF1R (IGF1R Products)
Background:	Description: Receptor tyrosine kinase which mediates actions of insulin-like growth factor 1
	(IGF1). Binds IGF1 with high affinity and IGF2 and insulin (INS) with a lower affinity. The
	activated IGF1R is involved in cell growth and survival control. IGF1R is crucial for tumor
	transformation and survival of malignant cell. Ligand binding activates the receptor kinase,
	leading to receptor autophosphorylation, and tyrosines phosphorylation of multiple substrates,
	that function as signaling adapter proteins including, the insulin-receptor substrates (IRS1/2),
	Shc and 14-3-3 proteins. Phosphorylation of IRSs proteins lead to the activation of two main
	signaling pathways: the PI3K-AKT/PKB pathway and the Ras-MAPK pathway. The result of
	activating the MAPK pathway is increased cellular proliferation, whereas activating the PI3K
	pathway inhibits apoptosis and stimulates protein synthesis. Phosphorylated IRS1 can activate
	the 85 kDa regulatory subunit of PI3K (PIK3R1), leading to activation of several downstream
	substrates, including protein AKT/PKB. AKT phosphorylation, in turn, enhances protein
	synthesis through mTOR activation and triggers the antiapoptotic effects of IGFIR through
	phosphorylation and inactivation of BAD. In parallel to PI3K-driven signaling, recruitment of
	Grb2/SOS by phosphorylated IRS1 or Shc leads to recruitment of Ras and activation of the ras
	MAPK pathway. In addition to these two main signaling pathways IGF1R signals also through
	the Janus kinase/signal transducer and activator of transcription pathway (JAK/STAT).
	Phosphorylation of JAK proteins can lead to phosphorylation/activation of signal transducers
	and activators of transcription (STAT) proteins. In particular activation of STAT3, may be
	essential for the transforming activity of IGF1R. The JAK/STAT pathway activates gene
	transcription and may be responsible for the transforming activity. JNK kinases can also be
	activated by the IGF1R. IGF1 exerts inhibiting activities on JNK activation via phosphorylation
	and inhibition of MAP3K5/ASK1, which is able to directly associate with the IGF1R.
	Gene: IGF1R
Molecular Weight:	kDa
Gene ID:	3480
UniProt:	P08069
Pathways:	RTK Signaling, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic
	Process Autophagy

Process, Autophagy

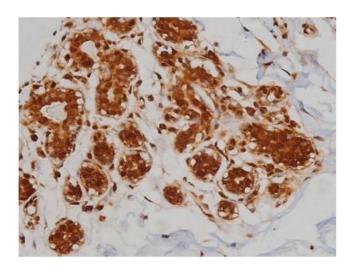
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Application Details	
Application Notes:	IHC 1:50-1:200, WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

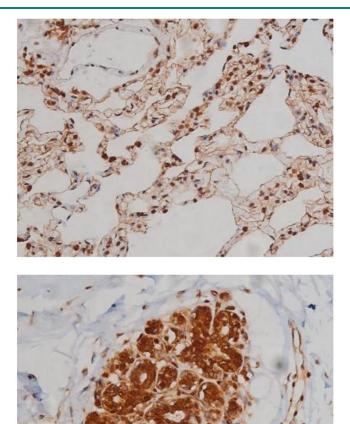
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. ABIN6267336 at 1/200 staining Human heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry

Image 2. ABIN6267336 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Immunohistochemistry

Image 3. ABIN6267336 at 1/200 staining Human heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 8 images are available for ABIN6256637.