

Insulin Receptor R Rabbit pAb

Catalog # AP99694

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P14616
Other Accession	P14616
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	143720
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Insulin receptor-related protein beta chain
Epitope Specificity	801-900/1297
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 3 fibronectin type-III domains. Contains 1 protein kinase domain. Contains 1 protein kinase domain.
SUBUNIT	Probable tetramer of 2 alpha and 2 beta chains linked by disulfide bonds. The alpha chains contribute to the formation of the ligand-binding domain, while the beta chains carry the kinase domain.
Post-translational modifications	Autophosphorylated on tyrosine residues between pH 7.9 and pH 10.5.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The insulin receptor related receptor (IRR) is a heterotetrameric transmembrane receptor composed of two alpha and 2 beta chains linked by disulfide bonds. The alpha chains contribute to the formation of the ligand-binding domain, while the beta chains carry the kinase domain. Member of the insulin RTK family, IRR shares high homology with the insulin (IR) and the insulin-like growth factor-1 receptor (IGF-1R), but doesn't bind any of IR and IGF-1R known ligands. In contrast to the widespread patterns of expression to IR and IGF-1R, IRR demonstrates a very restricted cellular distribution in a subset of tissues of neuronal origin and its biological functions are still unknown.

Additional Information

Gene ID	3645
Other Names	INSRR_HUMAN; INSRR; IRR; IR-related receptor; 2.7.10.1; INSRR_MOUSE; INSRR_RAT; insulin receptor related receptor

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	INSRR
Synonyms	IRR
Function	Receptor with tyrosine-protein kinase activity. Functions as a pH sensing receptor which is activated by increased extracellular pH. Activates an intracellular signaling pathway that involves IRS1 and AKT1/PKB.
Cellular Location	Membrane; Single-pass type I membrane protein.

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