

Rabbit anti-Human Insulin Receptor Polyclonal Antibody | anti-INSR antibody

Anti-Insulin Receptor Antibody, Rabbit Polyclonal

CATALOG # AAA255315	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
-------------------------------	-----------------------	----------------------------	--

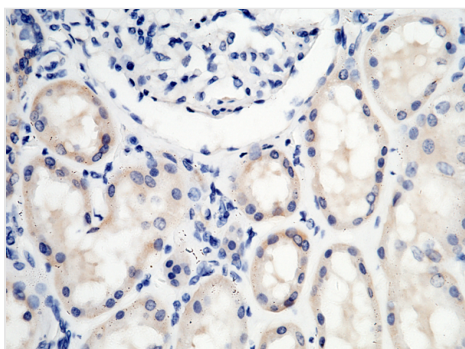
PRODUCT SYNONYMS

Insulin Receptor; Polyclonal Antibody; Anti-Insulin Receptor Antibody; Rabbit Polyclonal; Insulin Receptor/CD220/INSR Antibody; Rabbit PAb; Antigen Affinity Purified; insulin receptor; Anti-CD220 Antibody; Anti-HHF5 Antibody; anti-INSR antibody

PRODUCT SPECIFICATIONS

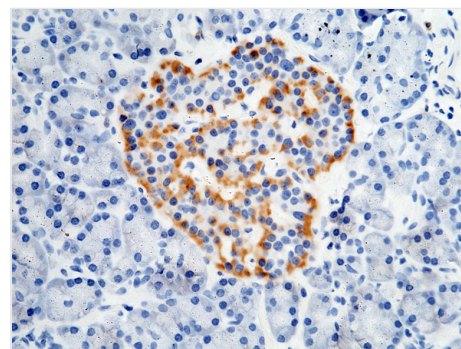
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Insulin Receptor/CD220/INSR
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-INSR antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Insulin Receptor/CD220/INSR protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Insulin Receptor/CD220/INSR (rh Insulin Receptor/CD220/INSR). Insulin Receptor/CD220/INSR specific IgG was purified by Human Insulin Receptor/CD220/INSR affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human INSR in human kidney with rabbit polyclonal antibody (1:60, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human INSR in human pancreas with rabbit polyclonal antibody (1:60, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-INSR antibody	INSR (Insulin receptor), also known as CD22, is a transmembrane receptor that is activated by insulin. INSR belongs to the protein kinase superfamily and exists as a tetramer consisting of two alpha subunits and two beta subunits linked by disulfide bonds. The alpha and beta subunits are encoded by a single INSR gene, and the beta subunits pass through the cellular membrane. As the receptor for insulin with tyrosine-protein kinase activity, INSR associates with downstream mediators upon binding to insulin, including IRS1 (insulin receptor substrate 1) and phosphatidylinositol 3'-kinase (PI3K). IRS-1 binding and phosphorylation eventually lead to an increase in the high-affinity glucose transporter (Glut4) molecules on the outer membrane of insulin-responsive tissues. INSR isoform long and isoform short are expressed in the peripheral nerve, kidney, liver, striated muscle, fibroblasts and skin, and is found as a hybrid receptor with IGF1R which also binds IGF1 in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibroblasts, spleen, and placenta. Defects in Insulin Receptor/INSR are the cause of Rabson-Mendenhall syndrome (Mendenhall syndrome), insulin resistance (Ins resistance), leprechaunism (Donohue syndrome), and familial hyperinsulinemic hypoglycemia 5 (HHF5). It may also be associated with noninsulin-dependent diabetes mellitus (NIDDM).
Product Categories/Family for anti-INSR antibody	Receptor Tyrosine Kinases (RTKs); AMPK Signaling Pathway
References	Ebina Y., et al., (1985), The human insulin receptor cDNA: the structural basis for hormone-activated transmembrane signalling. Cell 40:747-758.Ullrich A., et al., (1985), Human insulin receptor and its relationship to the tyrosine kinase family of oncogenes.Nature 313:756-761.Grimwood J., et al., (2004), The DNA sequence and biology of human chromosome 19.Nature 428:529-535.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395736
NCBI GeneID	3643
NCBI Accession #	NP_000199.2
NCBI GenBank Nucleotide #	NM_000208.2
UniProt Accession #	P06213; Q17RW0; Q59H98; Q9UCB7; Q9UCB8; Q9UCB9
Molecular Weight	156,333 Da
NCBI Official Full Name	insulin receptor isoform Long preproprotein
NCBI Official Synonym Full Names	insulin receptor
NCBI Official Symbol	INSR
NCBI Official Synonym Symbols	HHF5; CD220
NCBI Protein Information	insulin receptor; IR
UniProt Protein Name	Insulin receptor
UniProt Gene Name	INSR
UniProt Synonym Gene Names	IR
UniProt Entry Name	INSR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.