Catalog: OM121920

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Rabbit anti-INSR polyclonal antibody - middle region

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☐ 20ul ☐ 50ul ☐ 100ul

Product profile

Product name	Rabbit anti-INSR polyclonal antibody - middle region
Antibody Type	Primary Antibodies
Immunogen	The immunogen for anti-INSR antibody: synthetic peptide directed towards the middle region of human INSR
Modification	Unmodification

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Application	WB IHC
	WB:1:500~1:2000 **IHC**:1:50~1:200 **Notes**:Optimal dilutions/concentrations should be determined by the researcher.
Species Reactivity	Dog Guinea Pig Horse Human Mouse Rat Zebra Fish
Concentration	1mg/ml
Purification	Affinity purified

Target Information

Gene Symbol	INSR
Gene Synonyms	CD220 HHF5
Gene Full Name	Insulin receptor

Gene Summary	This receptor binds insulin and has a tyrosine-protein kinase activity. Isoform Short has a higher affinity for insulin. INSR mediates the metabolic functions of insulin. INSR binding to insulin stimulates association of the receptor with downstream mediators including IRS1 and phosphatidylinositol 3'-kinase (PI3K). INSR can activate PI3K either directly by binding to the p85 regulatory subunit, or indirectly via IRS1. When present in a hybrid receptor with IGF1R, it binds IGF1.A report shows that hybrid receptors composed of IGF1R and INSR isoform Long are activated with a high affinity by IGF1, with low affinity by IGF2 and not significantly activated by insulin, and that hybrid receptors composed of IGF1R and INSR isoform Short are activated by IGF1, IGF2 and insulin. In contrast, another report shows that hybrid receptors composed of IGF1R and INSR isoform Long and hybrid receptors composed of IGF1R and INSR isoform Short have similar binding characteristics, both bind IGF1 and have a low affinity for insulin.After removal of the precursor signal peptide, the insulin receptor precursor is post-translationally cleaved into two chains (alpha and beta) that are covalently linked. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. Two transcript variants encoding different isoforms have been found for this gene.
Alternative Names	CD220 HHF5
Molecular Weight(MW)	154kDa
Sequence	1382 amino acids

Database Links

Entrez Gene	3643
SwissProt ID	P06213
Protein Accession	NP_000199

Application

Application Notes	**WB**:1:500~1:2000 **IHC**:1:50~1:200 **Notes**:Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form	Liquid
Storage Instructions	Aliquot and store at -20°C. Avoid repeated freeze / thaw cycles
Storage Buffer	phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

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