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12-1200: Anti-Insulin Receptor Alpha Recombinant Rabbit Monoclonal Antibody (Clone:INSR/2277R)

Clonality :	Monoclonal
Clone Name :	INSR/2277R
Application :	IHC
Reactivity :	Human
Gene :	INSR
Gene ID :	3643
Uniprot ID :	P06213
Format :	Purified
Alternative Name :	CD220; HHF5; HIR A; INSR; Insulin receptor; Insulin receptor subunit alpha; IR
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant fragment of extracellular domain of human Insulin Receptor alpha (exact sequence is proprietary)

Description

The insulin receptor (IR) is a heterodimeric protein complex that has an intracellular and an extracellular subunit, which is disulfide-linked to a transmembrane segment. The insulin ligand binds to the IR and initiates molecular signaling pathways that promote glucose uptake in cells and glycogen synthesis. Insulin binding to IR induces phosphorylation of intra-cellular tyrosine kinase domains and recruitment of multiple SH2 and SH3 domain-containing intracellular proteins that serve as signaling intermediates for pleiotropic effects of insulin. Type 1 diabetes is an auto-immune condition of the endocrine pancreas that results in destruction of insulin secreting cells and a progressive loss in insulin-sensitive glucose uptake by cells.

Product Info

Amount :	20 µg / 100 µg
Purification :	Protein A/G
Content :	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2Âµg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

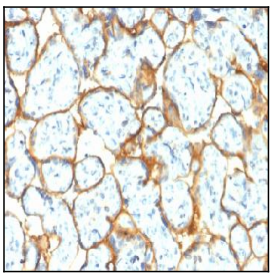

Fig-1: Formalin-fixed, paraffin-embedded human Placenta stained with Insulin Receptor Rabbit Recombinant Monoclonal Antibody

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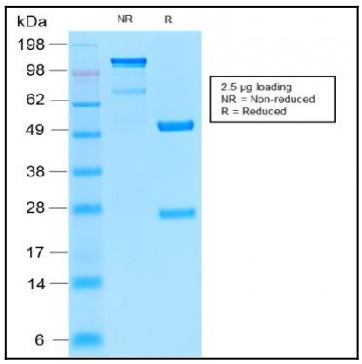

Fig-2: SDS-PAGE Analysis of Purified Insulin Receptor Rabbit Recombinant Monoclonal Antibody