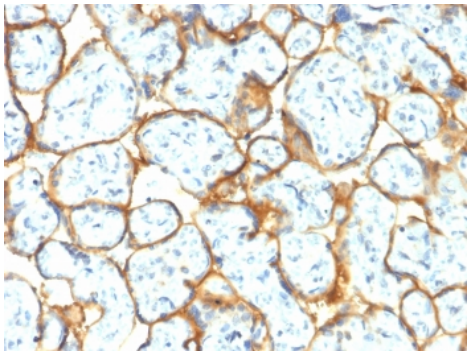
Recombinant Insulin Receptor alpha Antibody [clone INSR/2277R] (V3586)

Catalog No.	Formulation	Size
V3586-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3586-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3586SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3586IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

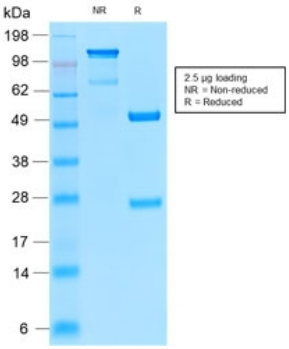
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	INSR/2277R
Purity	Protein A affinity chromatography
UniProt	P06213
Localization	Cytoplasm, cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant Insulin Receptor alpha antibody is available for research use only.



IHC testing of FFPE human placental tissue with recombinant Insulin Receptor alpha antibody (clone INSR/2277R). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant Insulin Receptor alpha antibody (clone INSR/2277R) as confirmation of integrity and purity.

Description

The insulin receptor (INSR) is a heterodimeric protein complex that has an intracellular ? subunit and an extracellular ? subunit, which is disulfide-linked to a transmembrane segment. The insulin ligand binds to the INSR and initiates molecular signaling pathways that promote glucose uptake in cells and glycogen synthesis. Insulin binding to INSR 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 autoimmune condition of the endocrine pancreas that results in destruction of insulin secreting cells and a progressive loss in insulin-sensitive glucose uptake by cells.

Application Notes

Optimal dilution of the recombinant Insulin Receptor alpha antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant partial protein from the extracellular region of the protein was used as the immunogen for the recombinant Insulin Receptor alpha antibody.

Storage

Store the recombinant Insulin Receptor alpha antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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