

Datasheet for ABIN966348
anti-IGF1R antibody



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2 Publications

Overview

Quantity:	0.1 mL
Target:	IGF1R
Reactivity:	Human
Host:	Please inquire
Clonality:	Monoclonal
Conjugate:	This IGF1R antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Ni-NTA purified truncated recombinant IGF1R-His expressed in E. Coli strain BL21 (DE3)
Isotype:	IgG2b
Purification:	Crude ascites.

Target Details

Target:	IGF1R
Alternative Name:	IGF1R (IGF1R Products)
Background:	IGF1R(insulin-like growth factor 1 receptor), a transmembrane receptor tyrosine kinase, is widely expressed in many cell types within fetal and postnatal tissues, and in many cell lines. Upon binding to its ligands, IGF-I and IGF-II, receptor autophosphorylation occurs. The triple tyrosine cluster within the kinase domain (Tyr1131, Tyr1135 and Tyr1136) is the earliest major site of autophosphorylation. Phosphorylation of these three tyrosine residues is necessary for

Target Details

kinase activation. Insulin receptors (IRs) share significant similarity with IGF1 receptors in both structure and function, including an equivalent triple tyrosine cluster within the activation loop of the kinase domain (Tyr1146, Tyr1150 and Tyr1151). Tyrosine autophosphorylation of insulin receptor is one of the earliest cellular responses to insulin stimulation. Autophosphorylation begins with phosphorylation of Tyr1146 and either Tyr1150 or Tyr1151. Full kinase activation requires the triple tyrosine phosphorylation.

Pathways: [RTK Signaling](#), [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Autophagy](#)

Application Details

Application Notes: Western Blot: 1: 500- 1: 2,000
IHC(P): 1: 500- 1: 2,000
IHC(F): 1: 500- 1: 2,000
ELISA: Propose dilution 1: 10,000.
Determining optimal working dilutions by titration test.

Restrictions: For Research Use only

Handling

Format: Liquid

Storage: -20 °C

Publications

Product cited in: Scheidegger, Cenni, Picard, Delafontaine: "Estradiol decreases IGF-1 and IGF-1 receptor expression in rat aortic smooth muscle cells. Mechanisms for its atheroprotective effects." in: **The Journal of biological chemistry**, Vol. 275, Issue 49, pp. 38921-8, (2001) ([PubMed](#)).

Fujimoto, Tomita, Wakamatsu, Tanimoto, Ike: "Physical mapping of the conjugative bacteriocin plasmid pPD1 of Enterococcus faecalis and identification of the determinant related to the pheromone response." in: **Journal of bacteriology**, Vol. 177, Issue 19, pp. 5574-81, (1995) ([PubMed](#)).