Datasheet for ABIN7482495

IGF1R Protein (Fc Tag)

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Overview

Quantity:	100 µg
Target:	IGF1R
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGF1R protein is labelled with Fc Tag.

Product Details

Purpose:	Human IGF-I R / CD221 Protein, Fc Tag
Sequence:	Glu 31 - Asn 932
Characteristics:	Human IGF-I R, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Glu 31 - Asn 932 (Accession # P08069-1).
Purity:	95 %
Endotoxin Level:	1.0 EU per µg

Target Details

Target:	IGF1R
Alternative Name:	IGF-I R (IGF1R Products)
Background:	The Insulin-like Growth Factor 1 Receptor (IGF1) is also known as CD221, JTK13. and is a transmembrane receptor that is activated by IGF-1 and by the related growth factor IGF-2. It belongs to the large class of tyrosine kinase receptors. This receptor mediates the effects of

Target Details

	IGF-1, which is a polypeptide protein hormone similar in molecular structure to insulin. IGF1R is make up of two alpha subunits and two beta subunits ,the Both the α and β subunits are synthesized from a single mR precursor. The precursor is then glycosylated, proteolytically cleaved, and crosslinked by cysteine bonds to form a functional transmembrane αβ chain.The α chains are located extracellularly while the β subunit spans the membrane and are responsible for intracellular signal transduction upon ligand stimulation. IGF1R have a binding site for ATP, which is used to provide the phosphates for autophosphorylation. There is a 60 % homology between IGF1R and the insulin receptor. In response to ligand binding, the α chains induce the tyrosine autophosphorylation of the β chains. This event triggers a cascade of intracellular signaling that, while somewhat cell type specific, often promotes cell survival and cell proliferation.
Molecular Weight:	129.3 kDa
Pathways:	RTK Signaling, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Autophagy

Application Details

Comment:	This protein carries a human IgG1 Fc tag at the C-terminus. (Fc) The protein has a calculated MW of 129.3 kDa. The protein migrates as 70-75 kDa and 105-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C