Insulin Like Growth Factor 2 Receptor (IGF2R) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Insulin Like Growth Factor 2 Receptor (IGF2R), ELISA Kit
Full Product Name	Goat Insulin Like Growth Factor 2 Receptor ELISA Kit
Product Gene Name	IGF2R elisa kit
Species Reactivity	Goat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	154,793 Da
OMIM	147370
3D Structure	ModBase 3D Structure for P08069
Related Product Information for IGF2R elisa kit	MBS075827 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Insulin Like Growth Factor 2 Receptor (IGF2R) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IGF2R. The ELISA analytical biochemical technique of the MBS075827 kit is based on IGF2R antibody-IGF2R antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IGF2R antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IGF2R. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of IGF2R elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGF2R. It may not necessarily be applicable to this product.

NCBI GI #	629266062
NCBI GeneID	3480
NCBI Accession #	NP_001278787.1
UniProt Primary Accession #	P08069
UniProt Secondary Accession #	Q14CV2; Q9UCC0; B1B5Y2
UniProt Related Accession #	P08069
GenBank Nucleotide #	NM_001291858.1
NCBI Official Full Name	insulin-like growth factor 1 receptor isoform 2
NCBI Official Synonym Full Names	insulin-like growth factor 1 receptor
NCBI Official Symbol	IGF1R
NCBI Official Synonym Symbols	IGFR; CD221; IGFIR; JTK13
UniProt Protein Name	Insulin-like growth factor 1 receptor
UniProt Synonym Protein Names	Insulin-like growth factor I receptor
Protein Family	Cation-independent mannose-6-phosphate receptor

UniProt Gene Name	IGF1R
UniProt Synonym Gene Names	IGF-I receptor
UniProt Entry Name	IGF1R_HUMAN
NCBI Protein Information	insulin-like growth factor 1 receptor; IGF-I receptor; soluble IGF1R variant 1; soluble IGF1R variant 2; insulin-like growth factor I receptor
NCBI Summary for IGF2R	This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]
UniProt Comments for IGF2R	IGF1R: a receptor tyrosine kinase that binds insulin-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. Functions as an anti-apoptotic agent by enhancing cell survival. Can play a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. Tetramer of 2 alpha and 2 beta chains linked by disulfide bonds. The alpha chains contribute to the formation of the ligand- binding domain, while the beta chain carries the kinase domain. Interacts with PIK3R1 and with the PTB/PID domains of IRS1 and SHC1 in vitro when autophosphorylated on tyrosine residues. Mutated in rare cases of pre- and post-natal growth retardation. One SNP associated with increased human longevity. Increased expression of IGF1R and other pathway members associated with progression and malignancy in a range of cancers. Inhibitors: AG1024, AEW541. Protein type: Membrane protein, integral; Protein kinase, TK; Protein kinase, tyrosine (receptor); EC 2.7.10.1; Kinase, protein; TK group; InsR family Chromosomal Location of Human Ortholog: 15q26.3 Cellular Component: neuron projection; membrane; intracellular membrane-bound organelle; integral to plasma membrane; plasma membrane; caveola; receptor complex Molecular Function: insulin binding; insulin-like growth factor binding; identical protein binding; protein binding; insulin-like growth factor I binding; insulin receptor substrate binding; protein-tyrosine kinase activity; phosphoinositide 3-kinase binding; G-protein alpha-subunit binding; insulin receptor binding; ATP binding; insulin-like growth factor receptor activity Biological Process: phosphoinositide 3-kinase cascade; epidermis development; inactivation of MAPKK activity; protein heterooligomerization; protein amino acid autophosphorylation; exocrine pancreas development; signal transduction; regulation of JNK cascade; response to vitamin E; positive regulation of MAPKKK cascade; mammary gland development; male sex determination; positive regulation of cell proliferation; protein tetramerization; positive regulation of cytokinesis; negative regulation of protein kinase B signaling cascade; phosphoinositide-mediated signaling; positive regulation of mitosis; negative regulation of transcription factor activity; positive regulation of protein kinase B signaling cascade; axonogenesis; insulin-like growth factor receptor signaling pathway; establishment of cell polarity; insulin receptor signaling pathway; immune response; brain development; positive regulation of DNA replication; positive regulation of cell migration; negative regulation of apoptosis Disease: Insulin-like Growth Factor I, Resistance To
Research Articles on IGF2R	**1.** Loss of Klotho protein expression, klotho promoter hypermethylation, high miR-504 levels, and high phospho-IGF-1R levels significantly correlated with poor survival, high clinical and pathological stages in pancreatic ductal adenocarcinoma patients
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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