

Datasheet for ABIN2792087

anti-IGF1R antibody (Middle Region)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	IGF1R
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Zebrafish (Danio rerio), Dog, Pig, Horse, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGF1R antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human IGF1R
Sequence:	DRHSGHKAEN GPGPGLVLR ASFDERQPYA HMNGGRKNER ALPLQSSTC
Specificity:	Directed to the beta chain of IGF1R
Predicted Reactivity:	Cow: 100%, Dog: 100%, Horse: 100%, Human: 100%, Mouse: 92%, Pig: 100%, Rat: 92%, Sheep: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against IGF1R. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	IGF1R
Alternative Name:	IGF1R (IGF1R Products)
Background:	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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-140 DR007209.1 566-705 141-3559 X04434.1 136-3554 3560-4540 BC113610.1 3542-4522 4541-4921 DA486252.1 187-567 4922-5392 BX093045.1 248-718 5393-5768 CN414655.1 317-692 5769-6158 BM264223.1 185-574 6159-6580 BQ185364.1 187-608 6581-11242 AC069029.9 21278-25939 c Alias Symbols: CD221, IGFI, JTK13, MGC142170, MGC142172, MGC18216, IGFR Protein Interaction Partner: KCNIP3, UBC, ESR1, PHB2, SHC1, FBXO6, SH2B1, Slc23a3, RPL11, HSP90AA1, GRB14, FFAR2, ARRB2, AMY2A, APP, RUVBL1, GNB2L1, ARRB1, YWHAG, TP53, NEDD4, MDM2, GRB10, SUMO1, CAMP, ERBB2, EGFR, KRT27, DOK5, DOK4, WISP2, EHD1, ARHGEF12, PIK3R3, VAV3, PRKD1, SOCS2, Protein Size: 1367
Molecular Weight:	71 kDa
Gene ID:	3480
NCBI Accession:	NM_000875 , NP_000866
UniProt:	P08069
Pathways:	RTK Signaling , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Autophagy

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1367 AA

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

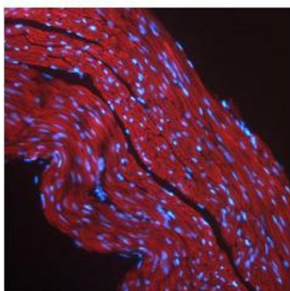
Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Kubota, Elalieh, Saless, Fong, Wang, Babey, Cheng, Bikle: "Insulin-like growth factor-1 receptor in mature osteoblasts is required for periosteal bone formation induced by reloading." in: **Acta astronautica**, Vol. 92, Issue 1, pp. 73-78, (2013) ([PubMed](#)).

Images



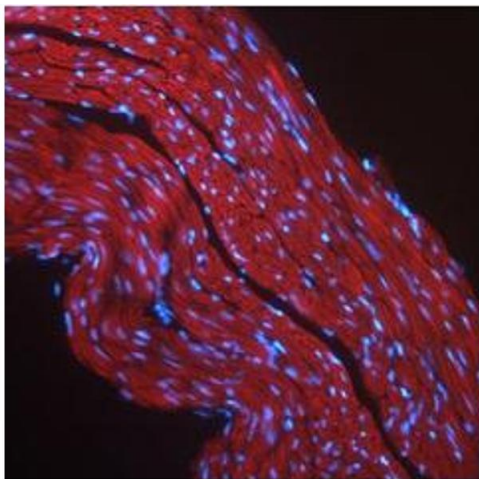
IGF1R-(AVARP00004_P050)

Immunofluorescent IGF1R detection in mouse skeletal muscle (red fluorescence). Nuclei were stained with DAPI (blue fluorescence).

Recommended for IHC on mouse tissue. Not suitable for IHC on human tissue.

Working dilution 2-10 ug/mL

Image 1.



Immunohistochemistry

Image 2. Immunofluorescent IGF1R detection in mouse skeletal muscle (red fluorescence). Nuclei were stained with DAPI (blue fluorescence). Working dilution: 2-10 $\mu\text{g/ml}$



Western Blotting

Image 3. WB Suggested Anti-IGF1R Antibody Titration: 0.2-1 $\mu\text{g/ml}$ ELISA Titer: 1:312500 Positive Control: Jurkat cell lysate