

Rabbit IGF2 Polyclonal Antibody | anti-IGF2 antibody

IGF2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326571	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

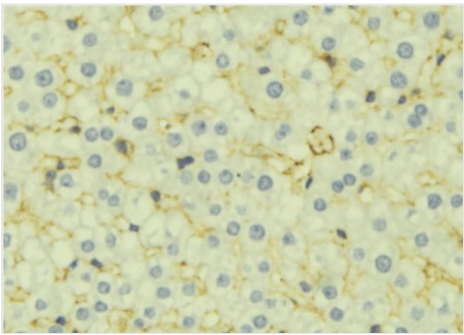
PRODUCT SYNONYMS

IGF2; Polyclonal Antibody; IGF2 Antibody; C11orf43; IGF 2; IGF II; IGF-II; IGF2_HUMAN; IGFII; INSIGF; insulin like growth factor 2 (somatomedin A); Insulin like Growth Factor 2; Insulin like growth factor II; Insulin like growth factor II precursor; Insulin like growth factor type 2; pp9974; Preptin; putative insulin like growth factor II associated protein; Somatomedin A; Somatomedin-A; anti-IGF2 antibody

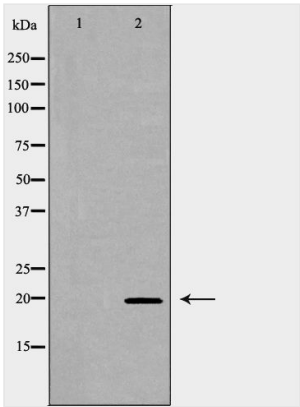
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	IGF2 antibody detects endogenous levels of total IGF2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	180
Applicable Applications for anti-IGF2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human IGF2
Subcellular Location	Secreted.
Tissue Specificity	Expressed in heart, placenta, lung, liver, muscle, kidney, tongue, limb, eye and pancreas.
Predicted Cross Reactivity	Pig, Horse, Rabbit, Dog
Similarity	Pig (92%), Horse (83%), Rabbit (92%), Dog (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

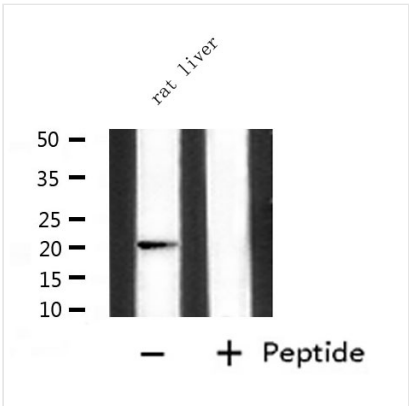
IMAGES



IHC (Immunohistochemistry)
AAA326571 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of mouse brain tissue, using IGF2 antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from rat liver, using IGF2 Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-IGF2 antibody

Description: This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilmstumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]

Function: The insulin-like growth factors possess growth-promoting activity. Major fetal growth hormone in mammals. Plays a key role in regulating fetoplacental development. IGF-II is influenced by placental lactogen. Also involved in tissue differentiation. Positively regulates myogenic transcription factor MYOD1 function by facilitating the recruitment of transcriptional coactivators, thereby controlling muscle terminal differentiation (By similarity). In adults, involved in glucose metabolism in adipose tissue, skeletal muscle and liver (Probable). Acts as a ligand for integrin which is required for IGF2 signaling (PubMed:28873464).

Subunit Structure: Interacts with MYORG; this interaction is required for IGF2 secretion (By similarity). Interacts with integrins ITGAV:ITGB3 and ITGA6:ITGB4; integrin-binding is required for IGF2 signaling (PubMed:28873464).

Post-translational Modifications: O-glycosylated with core 1 or possibly core 8 glycans. Thr-96 is a minor glycosylation site compared to Thr-99. Proteolytically processed by PCSK4, proIGF2 is cleaved at Arg-128 and Arg-92 to generate big-IGF2 and mature IGF2.

Similarity: Belongs to the insulin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504609
NCBI GeneID	3481

NCBI Accession #	NP_000603.1
NCBI GenBank Nucleotide #	NM_000612.5
UniProt Accession #	P01344 ; P78449 ; Q14299 ; Q1WM26 ; Q9UC68 ; Q9UC69 ; B3KX48 ; B7WP08 ; C9JAF2 ; E3UN45
Molecular Weight	Observed: 20 kDa Predicted: 21 kDa
NCBI Official Full Name	insulin-like growth factor II isoform 1 preproprotein
NCBI Official Synonym Full Names	insulin like growth factor 2
NCBI Official Symbol	IGF2
NCBI Official Synonym Symbols	GRDF; IGF-II; PP9974; C11orf43
NCBI Protein Information	insulin-like growth factor II
UniProt Protein Name	Insulin-like growth factor II
UniProt Gene Name	IGF2
UniProt Synonym Gene Names	IGF-II

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/igf2-antibody-immunohistochemistry-western-blot-elisa/326571>