

Datasheet for ABIN723605
anti-IGF1 antibody (AA 49-100)

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Overview

Quantity:	100 µL
Target:	IGF1
Binding Specificity:	AA 49-100
Reactivity:	Human, Mouse, Rat, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human IGF-1
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Rat
Predicted Reactivity:	Cow, Sheep, Pig, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	IGF1
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Target Details

Alternative Name:	IGF 1 (IGF1 Products)
Background:	<p>Synonyms: IGF1, IGF-I, IGF1A, Insulin-like growth factor I, Mechano growth factor, MGF, Somatomedin-C, IGF1, IBP1</p> <p>Background: The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. May play a role in synapse maturation.</p>
Gene ID:	3479
UniProt:	P05019
Pathways:	RTK Signaling , Intracellular Steroid Hormone Receptor Signaling Pathway , Peptide Hormone Metabolism , Hormone Activity , Regulation of Intracellular Steroid Hormone Receptor Signaling , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Stem Cell Maintenance , Glycosaminoglycan Metabolic Process , Regulation of Carbohydrate Metabolic Process , Autophagy , Smooth Muscle Cell Migration , Activated T Cell Proliferation , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 IP(1-2 µg)
Restrictions:	For Research Use only

Handling

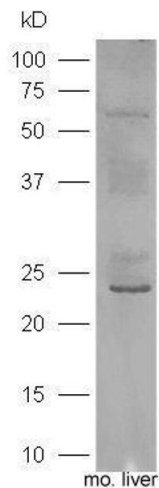
Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

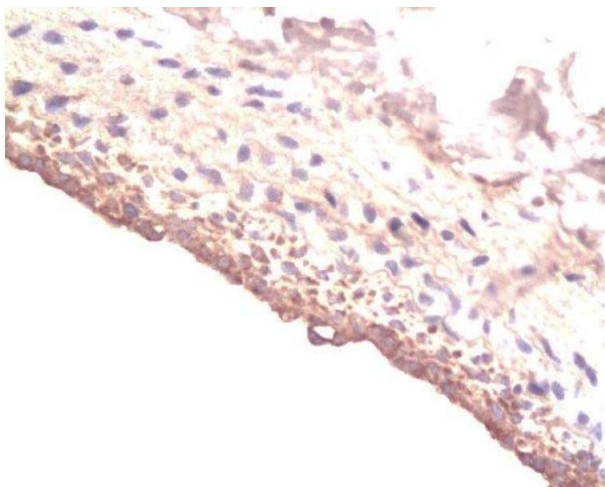
Publications

Product cited in:	<p>Liao, Xiao, Zhu, Zhou: "The effect of celastrol on learning and memory in diabetic rats after sevoflurane inhalation." in: Archives of medical science : AMS, Vol. 14, Issue 2, pp. 370-380, (2018) (PubMed).</p> <p>Uysal, Agilkaya, Sisman, Camsari, Gencoglu, Dayi, Aksu, Baykara, Cingoz, Kiray: "Exercise increases leptin levels correlated with IGF-1 in hippocampus and prefrontal cortex of adolescent male and female rats." in: Journal of chemical neuroanatomy, Vol. 81, pp. 27-33, (2017) (PubMed).</p> <p>Gabr, Rateb, El Sissy, Ahmed Seddiek, Ali Abdelhameed Gouda: "The effect of bone marrow-derived mesenchymal stem cells on chemotherapy induced ovarian failure in albino rats." in: Microscopy research and technique, Vol. 79, Issue 10, pp. 938-947, (2016) (PubMed).</p> <p>Kiray, Sisman, Camsari, Evren, Dayi, Baykara, Aksu, Ates, Uysal: "Effects of carbon dioxide exposure on early brain development in rats." in: Biotechnic & histochemistry : official publication of the Biological Stain Commission, Vol. 89, Issue 5, pp. 371-83, (2014) (PubMed).</p> <p>Baykara, Aksu, Buyuk, Kiray, Sisman, Baykara, Dayi, Tas, Ozdemir, Arda, Uysal et al.: "Progesterone treatment decreases traumatic brain injury induced anxiety and is correlated with increased serum IGF-1 levels; prefrontal cortex, amygdala, hippocampus neuron density; and reduced serum ..." in: Biotechnic & histochemistry : official publication of the Biological Stain Commission, Vol. 88, Issue 5, pp. 250-7, (2013) (PubMed).</p>
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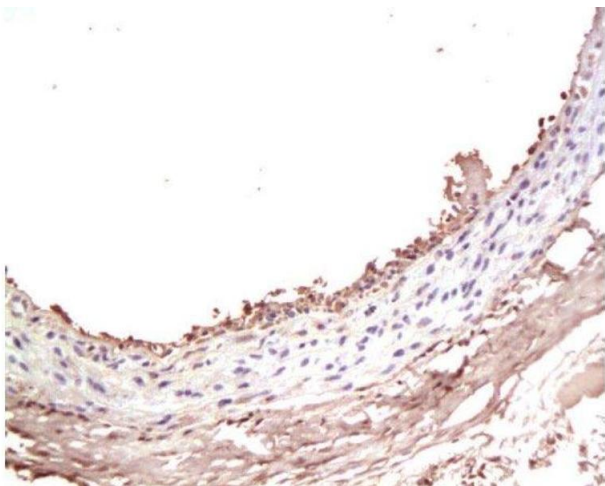
Western Blotting

Image 1. Mouse liver lysates probed with Rabbit Anti-IGF-1 Polyclonal Antibody, Unconjugated at 1:3000 for 90 min at 37°C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin-embedded rat Carotid artery labeled with Rabbit Anti-IGF-I Polyclonal Antibody , Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded rat Carotid artery labeled with Rabbit Anti-IGF-I Polyclonal Antibody , Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining