10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IGFBP1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22309c

Product Information

Application	WB, E
Primary Accession	P08833
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB57510
Calculated MW	27904

Additional Information

Gene ID	3484
Other Names	Insulin-like growth factor-binding protein 1, IBP-1, IGF-binding protein 1, IGFBP-1, Placental protein 12, PP12, IGFBP1, IBP1
Target/Specificity	This IGFBP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 140-174 amino acids from the Central region of human IGFBP1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IGFBP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IGFBP1
Synonyms	IBP1
Function	Multifunctional protein that plays a critical role in regulating the availability of IGFs such as IGF1 and IGF2 to their receptors and thereby regulates IGF-mediated cellular processes including cell migration, proliferation,

differentiation or apoptosis in a cell-type specific manner (PubMed:11397844, PubMed:15972819). Also plays a positive role in cell migration by interacting with integrin ITGA5:ITGB1 through its RGD motif (PubMed:7504269). Mechanistically, binding to integrins leads to activation of focal adhesion kinase/PTK2 and stimulation of the mitogen-activated protein kinase (MAPK) pathway (PubMed:11397844). Regulates cardiomyocyte apoptosis by suppressing HIF-1alpha/HIF1A ubiquitination and subsequent degradation (By similarity).

Cellular Location Secreted.

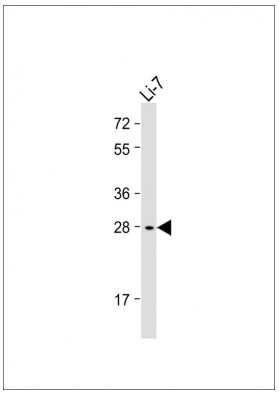
Background

IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. Promotes cell migration.

References

Brinkman A.,et al.EMBO J. 7:2417-2423(1988).
Brewer M.T.,et al.Biochem. Biophys. Res. Commun. 152:1289-1297(1988).
Grundmann U.,et al.Nucleic Acids Res. 16:8711-8711(1988).
Julkunen M.,et al.FEBS Lett. 236:295-302(1988).
Lee Y.-L.,et al.Mol. Endocrinol. 2:404-411(1988).

Images



Anti-IGFBP1 Antibody (Center) at 1:2000 dilution + Li-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.