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IGFBP5 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21963c

Product Information

Application	WB, E
Primary Accession	P24593
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54635
Calculated MW	30570

Additional Information

Gene ID	3488
Other Names	Insulin-like growth factor-binding protein 5, IBP-5, IGF-binding protein 5, IGFBP-5, IGFBP5, IBP5
Target/Specificity	This IGFBP5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 87-121 amino acids from the Central region of human IGFBP5.
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	IGFBP5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IGFBP5
Synonyms	IBP5
Function	Multifunctional protein that plays a critical role in regulating the availability of IGFs to their receptors and thereby regulates IGF-mediated cellular

processes including proliferation, differentiation, and apoptosis in a cell-type specific manner (PubMed:18930415, PubMed:7683690). Increases the cell proliferation of osteoblasts, intestinal smooth muscle cells and neuroblastoma cells. Enhances adhesion and survival of epithelial cells but decreases adhesion of mesenchymal cells (By similarity). Once secreted, acts as a major mediator of mTORC1-dependent feedback inhibition of IGF1 signaling (By similarity). Also plays a role in the induction of extracellular matrix (ECM) production and deposition independently of its nuclear translocation and binding to IGFs (PubMed:20345844, PubMed:26103640). Acts itself as a growth factor that can act independently of IGFs to regulate bone formation. Acts as a ligand for the ROR1 receptor which triggers formation of ROR1/HER2 heterodimer to enhance CREB oncogenic signaling (PubMed:36949068).

Cellular Location Secreted. Cytoplasm. Nucleus

Tissue Location Osteosarcoma, and at lower levels in liver, kidney and brain

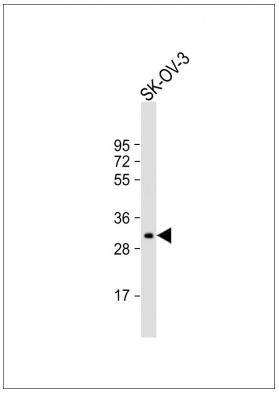
Background

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.

References

Kiefer M.C.,et al.Biochem. Biophys. Res. Commun. 176:219-225(1991).
Shimasaki S.,et al.J. Biol. Chem. 266:10646-10653(1991).
Allander S.V.,et al.J. Biol. Chem. 269:10891-10898(1994).
Yu W.,et al.Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Images



Anti-IGFBP5 Antibody (Center) at 1:2000 dilution + SK-OV-3 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 : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.