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Anti-IGFBP5 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17780

Product Information

Application	WB, IHC-P, E
Primary Accession	P24593
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30570

Additional Information

Gene ID	3488
Alias Symbol	IGFBP5
Other Names	IGFBP5, IBP-5, IGFBP-5, IBP5, IGF-binding protein 5
Target/Specificity	Human IGF-BP5
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-IGFBP5 Antibody 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

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