

IGFBP5 (18K8) Rabbit Monoclonal Antibody

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Catalog # AP93797

Product Information

Application	WB, IP
Primary Accession	P24594
Reactivity	Rat, Mouse
Clonality	Monoclonal
Calculated MW	30298

Additional Information

Gene ID	25285
Other Names	Insulin-like growth factor-binding protein 5, IBP-5, IGF-binding protein 5, IGFBP-5, Igfbp5, Igfbp-5
Dilution	WB~~1:1000 IP~~N/A
Storage Conditions	-20°C

Protein Information

Name	Igfbp5
Synonyms	Igfbp-5
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: 23417767). Increases the cell proliferation of osteoblasts, intestinal smooth muscle cells and neuroblastoma cells (By similarity). 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. 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 (By similarity).
Cellular Location	Secreted {ECO:0000250 UniProtKB:P24593}. Cytoplasm {ECO:0000250 UniProtKB:P24593}. Nucleus {ECO:0000250 UniProtKB:P24593}

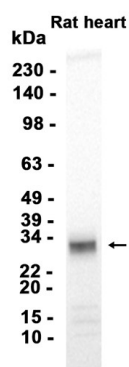
Tissue Location

Mostly in kidney.

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

Images



Western blot analysis of extracts from Rat heart tissue using AP93797 at 1:1000.

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