

For Research Use Only

IGFBP6 Monoclonal antibody

Catalog Number: 67567-1-Ig **2 Publications**



Basic Information

Catalog Number: 67567-1-Ig	GenBank Accession Number: BC011708	Purification Method: Protein A purification
Size: 2023 µg/ml	GeneID (NCBI): 3489	CloneNo.: 1D12B3
Source: Mouse	UNIPROT ID: P24592	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000
Isotype: IgG2b	Full Name: insulin-like growth factor binding protein 6	
Immunogen Catalog Number: AG30050	Calculated MW: 25 kDa	
	Observed MW: 30-33 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : U-87 MG cells, human testis tissue IHC : human liver tissue,
Cited Applications: IHC	
Species Specificity: Human	
Cited Species: human, monkey	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Insulin-like growth factor (IGF) binding protein (IGFBP6), a 240 amino acid protein, contains an IGFBP N-terminal domain and a thyroglobulin type-1 domain. It modulates the activity of IGF and shows independent effects of IGF, such as growth inhibition and apoptosis. It can decrease the proliferation and survival of cancer cells such as lung cancer cells and naso-pharyngeal cancer cells. IGFBP-6 is distinctive for its 50-fold higher binding affinity for IGF-II over IGF-I and this specificity makes it an attractive potential therapeutic candidate for IGF-II-dependent pediatric malignancies such as rhabdomyosarcoma (RMS). In addition, it was found that IGFBP6 can promote the migration of RMS cells in an IGF-independent manner, and MAPK pathways were involved in this process. Further study reported that IGFBP6 is one of most highly expressed proteins in varicose vein tissues and is involved in the proliferation of vascular smooth muscle cells (VSMCs), which may provide insights into the underlying pathogenesis of varicose vein.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhitao Zong	34396926	Neurol Res	IHC
Hiroki Hagizawa	37255604	Front Cell Dev Biol	IHC

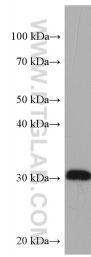
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

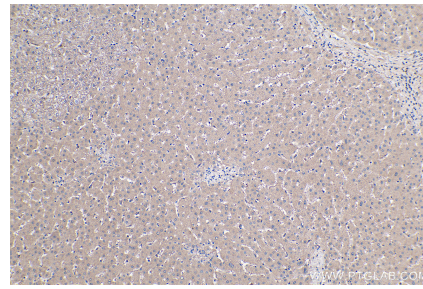
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Selected Validation Data



U-87 MG cells were subjected to SDS PAGE followed by western blot with 67567-1-Ig (IGFBP6 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67567-1-Ig (IGFBP6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).