

For Research Use Only

IGFBP6 Recombinant antibody, PBS Only

Catalog Number: 84364-5-PBS



Basic Information

Catalog Number: 84364-5-PBS	GenBank Accession Number: BC011708	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3489	CloneNo.: 241724H5
Source: Rabbit	UNIPROT ID: P24592	
Isotype: IgG	Full Name: insulin-like growth factor binding protein 6	
	Calculated MW: 25 kDa	
	Observed MW: 34 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

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.

Storage

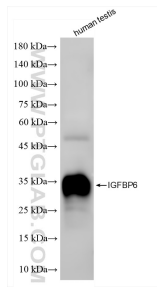
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

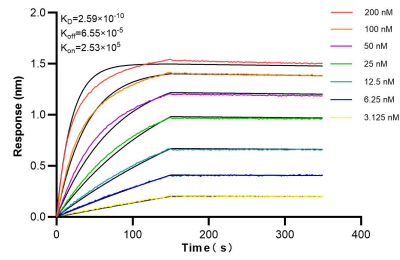
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Selected Validation Data



human testis tissue were subjected to SDS PAGE followed by western blot with 84364-5-RR (IGFBP6 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84364-5-PBS in a different storage buffer formulation.



Biacore BLI kinetic assays of 84364-5-RR against Human IGFBP6 were performed. The affinity constant is 0.259 nM.