

Product Name: KD-Validated IGFBP7 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00736**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 29.1kDa

Antigen Information

Gene Name	IGFBP7 IGFBP7; Insulin Like Growth Factor Binding Protein 7; IGFBP-7; MAC25; PSF; FSTL2; Insulin-Like Growth Factor-Binding Protein 7; Prostacyclin-Stimulating Factor; Tumor-Derived
Alternative Names	Adhesion Factor; PGI2-Stimulating Factor; IGF-Binding Protein 7; IGFBP-RP1; IBP-7; TAF; Insulin-Like Growth Factor Binding Protein 7; MAC25 Protein; Angiomodulin; IGFBP-7v; IGFBPRP1; RAMSVPS; AGM
Gene ID	3490.0
SwissProt ID	Q16270
Immunogen	A synthesized peptide derived from human IGFBP7

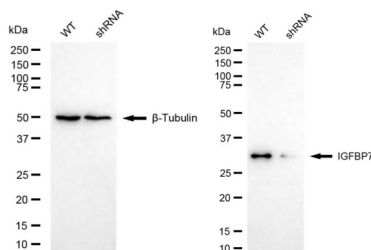
Background

This gene encodes a member of the insulin-like growth factor (IGF)-binding protein (IGFBP) family. IGFBPs bind IGFs with high affinity, and regulate IGF availability in body fluids and tissues and modulate IGF binding to its receptors. This protein binds IGF-I and IGF-II with relatively low affinity, and belongs to a subfamily of low-affinity IGFBPs. It also stimulates prostacyclin production and cell adhesion. Alternatively spliced transcript variants encoding different isoforms have been described for this gene, and one variant has been associated with retinal arterial macroaneurysm (PMID:21835307). [provided by RefSeq, Dec 2011]

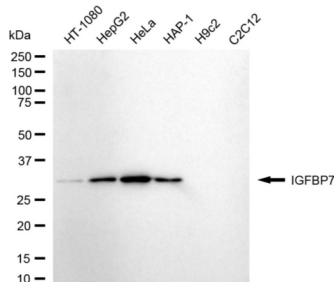
Research Area

Signal Transduction,Cancer

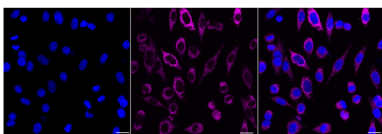
Image Data



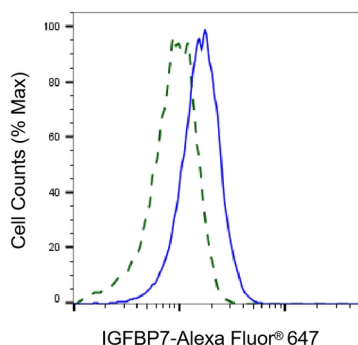
Western blotting analysis using IGFBP7 antibody (KVA00736). IGFBP7 expression in wild-type (WT) and IGFBP7 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with IGFBP7 antibody (KVA00736, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



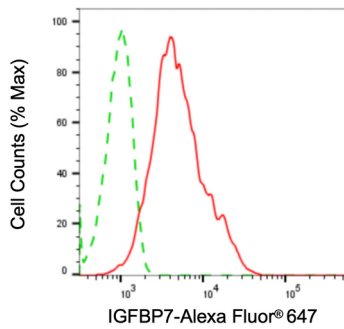
Western blotting analysis using IGFBP7 antibody (KVA00736). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with IGFBP7 antibody (KVA00736, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. IGFBP7, insulin like growth factor binding protein 7.



Immunocytochemical staining of HepG2 cells with IGFBP7 antibody(KVA00736, 1:1,000). Nuclei were stained blue with DAPI; IGFBP7 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of IGFBP7 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with IGFBP7 antibody (KVA00736, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of IGFBP7 expression in HepG2 cells using IGFBP7 antibody (KVA00736, 1:2,000). Green, isotype control; red, IGFBP7.