

LTBP1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7780B

Product Information

Application	WB, IHC-P, E
Primary Accession	Q14766
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14971
Calculated MW	186796
Antigen Region	1493-1525

Additional Information

Gene ID	4052
Other Names	Latent-transforming growth factor beta-binding protein 1, LTBP-1, Transforming growth factor beta-1-binding protein 1, TGF-beta1-BP-1, LTBP1
Target/Specificity	This LTBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1493-1525 amino acids from the C-terminal region of human LTBP1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LTBP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LTBP1 (HGNC:6714)
Function	Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular space (PubMed: 2022183 , PubMed: 8617200 , PubMed: 8939931). Associates specifically via disulfide bonds with the

Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta (PubMed:[15184403](#), PubMed:[8617200](#), PubMed:[8939931](#)). Outcompeted by LRRC32/GARP for binding to LAP regulatory chain of TGF-beta (PubMed:[22278742](#)).

Cellular Location

Secreted. Secreted, extracellular space, extracellular matrix

Tissue Location

Expressed in the aorta (at protein level) (PubMed:17293099). Isoform Long: Expressed in fibroblasts (PubMed:17293099).

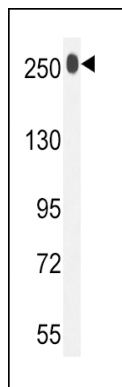
Background

LTBP1 may be involved in the assembly, secretion and targeting of TGFB1 to sites at which it is stored and/or activated. This protein may play critical roles in controlling and directing the activity of TGFB1, and it may have a structural role in the extra cellular matrix (ECM).

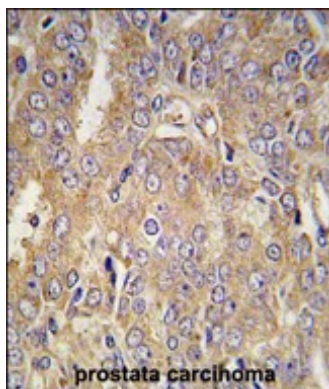
References

Olofsson A., J. Biol. Chem. 270:31294-31297(1995)
Kanzaki T., Cell 61:1051-1061(1990)
Isogai Z., J. Biol. Chem. 278:2750-2757(2003)
Oklu R., Biochem. J. 352:601-610(2000)

Images



LTBP1 Antibody (C-term) (Cat.#AP7780b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the LTBP1 antibody detected the LTBP1 protein (arrow).



Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with LTBP1 antibody (C-term) (Cat.#AP7780b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- [Proteomic profiling of androgen-independent prostate cancer cell lines reveals a role for protein S during the development of high grade and castration-resistant prostate cancer.](#)

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