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# LTBP1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7780B

## Product Information

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

## Additional Information

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| **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

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| **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).

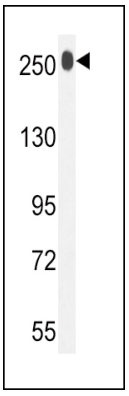
## Background

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).

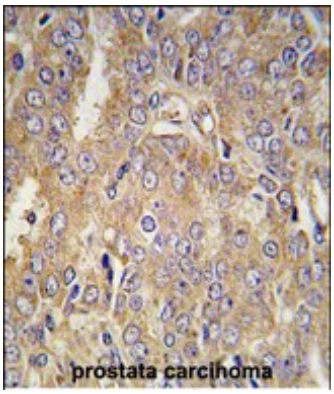
## References


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 prostata 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'.