

LTBP1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7780a**Specification**

LTBP1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q14766](#)**LTBP1 Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP7780a](/products/AP7780a) was selected from the N-term region of human LTBP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LTBP1 Antibody (N-term) Blocking Peptide - Protein InformationName 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](http://www.uniprot.org/citations/2022183), PubMed:[8617200](http://www.uniprot.org/citations/8617200), PubMed:[8939931](http://www.uniprot.org/citations/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:[8617200](http://www.uniprot.org/citations/8617200), PubMed:[8939931](http://www.uniprot.org/citations/8939931), PubMed:[15184403](http://www.uniprot.org/citations/15184403)). Outcompeted by LRRC32/GARP for binding to LAP regulatory chain of TGF-beta (PubMed:[15184403](#)).

href="http://www.uniprot.org/citations/22278742" target="_blank">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).

LTBP1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

LTBP1 Antibody (N-term) Blocking Peptide - Images**LTBP1 Antibody (N-term) Blocking Peptide - Background**

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

LTBP1 Antibody (N-term) Blocking Peptide - 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)