



Rabbit Anti-LTBP1 antibody

SL12413R

Product Name:	LTBP1
Chinese Name:	转化生长因子β1Binding protein1抗体
Alias:	9430031G15Rik; 9830146M04; Latent transforming growth factor beta binding protein 1; Latent-transforming growth factor beta-binding protein 1; Latent-transforming growth factor beta-binding protein, isoform 1L; Latent-transforming growth factor beta-binding protein, isoform 1S; LBT1S; LTBP-1; Ltbp1; LTBP1_HUMAN; MGC163161; TGF-beta1-BP-1; Tgfb; Transforming growth factor beta-1-binding protein 1; Transforming growth factor beta-1-masking protein large subunit.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,
Applications:	ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	184kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LTBP1:221-320/1721
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Latent transforming growth factor-beta 1 binding protein 1 (LTBP-1), a heavy glycoprotein, is part of the platelet-derived TGF-beta 1 complex. LTBP-1 serves as an anchor for latent TGF-beta in the extracellular matrix and is a component of

microfibrillar structures. Cleavage of LTBP results in LTBP-1, which may sequester latent TGF-beta in the extracellular matrix and regulate its activation. LTBP-1 mRNA is enriched in ovarian carcinoma tissues and highly expressed in serous and mucinous adenocarcinomas.

Function:

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).

Subunit:

The large latent complex of TGFB1 from platelets is composed of the TGFB1 molecule non-covalently associated with a disulfide-bonded complex of a dimer of the N-terminal propeptide of the TGFB1 precursor and LTBP1. LTBP1 does not bind directly to active TGFB1. Binds to FBN1 and FBN2. Interacts with ADAMTSL2.

Subcellular Location:

Secreted.

Tissue Specificity:

Isoform Long is found in fibroblasts.

Post-translational modifications:

Contains hydroxylated asparagine residues.

Isoform Short N-terminus is blocked.

The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

Similarity:

Belongs to the LTBP family.

Contains 18 EGF-like domains.

Contains 4 TB (TGF-beta binding) domains.

SWISS:

Q14766

Gene ID:

4052

Database links:

[Entrez Gene: 4052](#)Human

[Entrez Gene: 268977](#)Mouse

[Entrez Gene: 59107](#)Rat

[Omin: 150390](#)Human

[SwissProt: Q14766](#)Human

[SwissProt: Q8CG19](#)Mouse

[SwissProt: Q00918](#)Rat

[Unigene: 619315](#)Human

[Unigene: 269747](#)Mouse

[Unigene: 40942](#)Rat

Important Note:

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