

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LTBP-1 from the large latent TGF- β 1 complex.
Source	Monoclonal Mouse IgG ₁ Clone # 35409
Purification	Protein A or G purified from ascites
Immunogen	Human platelet-derived large latent TGF- β 1 complex
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	Large latent TGF- β complex from human platelets under non-reducing conditions only
Immunoaffinity Purification	This antibody can be used to affinity purify the large latent TGF- β complex (containing both the 230 and 195 kDa binding protein) and will also pull out "free" binding protein that is not associated with the small latent TGF- β .	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TGF- β is synthesized as high molecular weight latent complexes. In platelets, the large latent TGF- β 1 complex is composed of three components: mature TGF- β 1 dimer; latency associated peptide; and a latent TGF- β binding protein (LTBP) (1-3). The cDNAs for four binding proteins (LTBP-1, -2, -3 and -4) have now been cloned (4-5).

References:

1. Miyazono, K. *et al.* (1991) EMBO J. **10**:1091.
2. Moren, A. *et al.* (1994) J. Biol. Chem. **269**:32469.
3. Yin, W. *et al.* (1995) J. Biol. Chem. **270**:10147.
4. Kanzaki, T. *et al.* (1990) Cell **61**:1051.
5. Saharinen, J. *et al.* (1998) J. Biol. Chem. **273**:18459.