

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LAP (TGF-β1) and Latent TGF-β1 in ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 9005
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Latent TGF-β1 Leu30-Ser390 Accession # P01137
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm 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.

Human LAP TGF-β1 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	Human LAP (TGF-β1) Antibody (Catalog # MAB2461)
ELISA Detection	0.5-2.0 μg/mL	Human LAP (TGF-β1) Biotinylated Antibody (Catalog # BAM2462)
Standard		Recombinant Human LAP (TGF-β1) (Catalog # 246-LP)

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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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

The TGF-β family includes several related proteins (70 - 80% sequence homology) from mammalian, avian or *Xenopus* systems that are now designated TGF-β1, TGF-β2, TGF-β1.2, TGF-β3, TGF-β4, and TGF-β5. These proteins are secreted by cells in the form of an inactive complex, referred to as Latent TGF-β, that consists of TGF-β associated non-covalently with a Latency-associated peptide (LAP). These two proteins are synthesized as a single pro-peptide that is cleaved in a post Golgi compartment prior to secretion. Different TGF-β family members are naturally associated with their own distinct LAPs.