Human LAP (TGF-β1) Antibody

Monoclonal Mouse IgG_1 Clone # 27232

Catalog Number: MAB2463

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LAP (TGF-β1) in direct ELISAs. In direct ELISAs, this antibody does not cross-react with recombinant human (rh) TGF-β1, rhTGF-β2, rhTGF-β1.2, rhTGF-β3, or rhTGF-α.
Source	Monoclonal Mouse IgG_1 Clone # 27232
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human LAP (TGF-β1) Leu30-Arg278 (Cys33Ser) 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.*

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10^6 cells	Human platelets

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.** ● 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.