

Human LAP (TGF-β1) Antibody

Monoclonal Mouse IgG₁ Clone # 27235 Catalog Number: MAB246

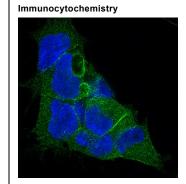
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human LAP in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG ₁ Clone # 27235		
Purification	Protein A or G purified from ascites		
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human LAP (TGF-β1)		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
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 either lyophilized or as a 0.2 μm filtered solution in PBS.		

APPLICATIONS

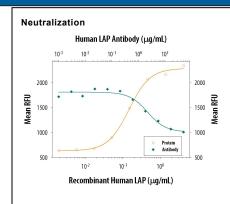
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Immunocytochemistry	3-25 μg/mL	See Below	
Neutralization	Measured by its ability to neutralize LAP TGF-β1 inhibition of TGF-β1 growth inhibition in the HT-2 mouse T cell line. Tsang, M. <i>et al.</i> (1995) Cytokine 7 :389. The Neutralization Dose (ND ₅₀) is typically 1-5 μg/mL in the presence of 500 ng/mL Recombinant Human LAP TGF-β1 and 1 ng/mL Recombinant Human TGF-β1.		

DATA



LAP (TGF-β1) in HEK293 Human Cell Line. LAP (TGF-β1) was detected in immersion fixed HEK293 human embryonic kidney cell line using Mouse Anti-Human LAP (TGF-β1) Monoclonal Antibody (Catalog # MAB246) at 3 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Mouse IgG Secondary Antibody (green; Catalog # NL009) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



LAP TGF-β1 Inhibition of TGF-β1 Activity and Neutralization by Human LAP TGF-β1 Antibody. Recombinant Human LAP TGF-β1 (Catalog # 246-LP) inhibits Recombinant Human TGF-β1 (Catalog # 240-B) growth inhibition activity in the HT-2 mouse T cell line in a dosedependent manner (orange line). Inhibition of Recombinant Human TGF-B1 (1 ng/mL) activity elicited by Recombinant Human LAP TGF-β1 (500 ng/mL) is neutralized (green line) by increasing concentrations of Human LAP TGF-β1 Monoclonal Antibody (Catalog # MAB246). The ND_{50} is typically 1-5 μ g/mL.

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

- 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- β 1, TGF- β 2, TGF- β 1, TGF- β 3, TGF- β 4, and TGF- β 5. These proteins are secreted by cells in the form of an inactive complex, referred to as latent TGF- β 6, that consists of TGF- β 8 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 6 family members are naturally associated with their own distinct LAPs.

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