

SLP1

Mouse Anti-Human SLPI (Clone 31) mAb

Catalog No.	MON2005	Quantity:	100 µg
Alternate Names:	Antileukoproteinase, ALP, BLPI, HUSI-1, Mucus proteinase inhibitor, MPI, Protease inhibitor WAP4, Secretory leukocyte protease inhibitor, Seminal proteinase inhibitor, WAP four-disulfide core domain protein 4		
Description:	<p>Secretory leukocyte proteinase inhibitor (SLPI) was identified as an alarm reactant and expression is induced by inflammatory factors like LPS, IL1β, TNFα and neutrophils elastase. SLPI is a relatively small basic antiprotease of 11.7 kDa and is a cationic non-glycosylated protein consisting of 107 amino acids. SLPI has a high affinity for the neutrophil serine proteinases, elastase and cathepsin G. Orthologues of SLPI have been found in mice, rat, pigs and sheep. It consists of two highly similar WAP ('whey acid protein' /4-disulphide core domains. SLPI contain 16 cysteine residues which assemble into eight disulphide bridges (four in each WAP domain). SLPI is constitutively expressed at many mucosal surfaces and is produced by a variety of epithelial cells, including respiratory, intestinal and amniotic epithelia. Expression is also detected in mast cells, neutrophils and macrophages. Expression of SLPI gene is significantly increased by progesterone and by the pro-inflammatory cytokines TNF-α and IL1-β. Although SLPI has been shown to inhibit a spectrum of proteases (including HNE, cathepsin G, trypsin, chymotrypsin and chymase), its main action in this regard is likely to be the inhibition of elastase, as indicated by its low dissociation constant and favorable kinetics of inhibition for this enzyme.</p>		
Concentration:	0.1 mg/ml		
UniProt ID:	P03973		
Specificity:	Human SLPI		
Host:	Mouse		
Immunogen:	SLPI purified from sputum		
Isotype:	IgG1		
Clone:	31		
Formulation:	Purified antibody in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Applications:	Western blot, IHC-F, IHC-P, immunoprecipitation, suggested starting dilution 1:50		
Storage & Stability:	Store antibody at 2-8°C until expiration date.		

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