

Neutrophil Elastase Rabbit mAb

Catalog # AP76955

Product Information

Application	WB, IHC-P, IF, FC, ICC
Primary Accession	P08246
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human Neutrophil Elastase
Purification	Affinity Chromatography
Calculated MW	28518

Additional Information

Gene ID	1991
Other Names	ELANE
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	ELANE
Synonyms	ELA2
Function	Serine protease that modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis (PubMed: 15140022). Promotes cleavage of GSDMB, thereby inhibiting pyroptosis (PubMed: 36899106). Promotes blood coagulation (PubMed: 20676107). Through the activation of the platelet fibrinogen receptor integrin alpha-IIb/beta-3, potentiates platelet aggregation induced by a threshold concentration of cathepsin G (CTSG) (PubMed: 25211214 , PubMed: 9111081). Cleaves and thus inactivates tissue factor pathway inhibitor (TFPI) (PubMed: 20676107 , PubMed: 25211214). Capable of killing E.coli but not S.aureus in vitro; digests outer membrane protein A (ompA) in E.coli and K.pneumoniae (PubMed: 10947984).

Cellular Location	Cytoplasmic vesicle, phagosome. Note=Localized in phagolysosomes following ingestion of E.coli by neutrophils
Tissue Location	Bone marrow cells. Neutrophil (PubMed:10947984).

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