

For Research Use Only

Neutrophil Elastase Polyclonal antibody

Catalog Number: 27642-1-AP

7 Publications



Basic Information

Catalog Number: 27642-1-AP	GenBank Accession Number: BC074816	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 1991	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: P08246	
Isotype: IgG	Full Name: elastase 2, neutrophil	
Immunogen Catalog Number: AG26634	Calculated MW: 267 aa, 29 kDa	
	Observed MW: 29 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : THP-1 cells, U-937 cells
Cited Applications: WB, IHC, IF	IHC : human lymphoma tissue, mouse spleen tissue
Species Specificity: human, mouse	IF/ICC : HEK-293 cells,
Cited Species: human, mouse, rat, bovine	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

ELA2(Neutrophil elastase) is also named as ELAL, NE, HLE, HNE, PMN-E, SERP1, GE, ELANE and belongs to the peptidase S1 family. It is a 33-kDa enzyme with several isoforms that differ in their extent of glycosylation(PMID:12223222). Human neutrophil elastase (HNE) is a serine protease with potent proteolytic activity (3), which is reported to cause mucin secretion (degranulation)(PMID:12169572). It may contribute to the directed migration of leukocytes into flamed postcapillary venules in addition to contributing to the process of tissue emigration(PMID:9683424). The full length protein has a signal peptide, propeptide and three glycosylation sites.

Notable Publications

Author	Pubmed ID	Journal	Application
Guanxin Lv	35565616	Animals (Basel)	IF
Jin Li	35305560	Cell Mol Biol Lett	WB,IHC
Hao-Dong Pan	39374547	Eur J Cardiothorac Surg	IF

Storage

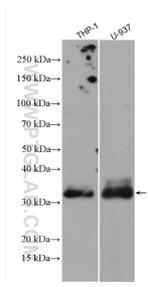
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

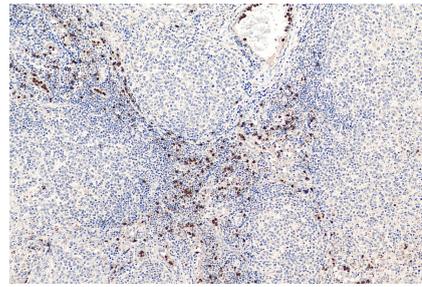
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

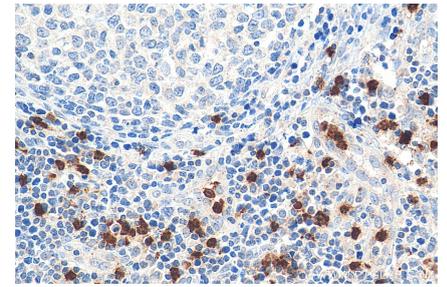
Selected Validation Data



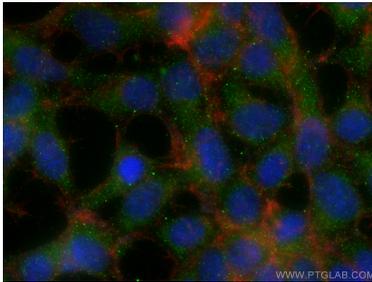
THP-1 cells were subjected to SDS PAGE followed by western blot with 27642-1-AP (ELA2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 27642-1-AP (ELA2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 27642-1-AP (ELA2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ELA2 antibody (27642-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).