

For Research Use Only

ELA2 Polyclonal antibody

Catalog Number: 27642-1-AP **4 Publications**



Basic Information

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

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : THP-1 cells, U-937 cells
Cited Applications: WB, IF, IHC	IHC : human lymphoma tissue, mouse spleen tissue
Species Specificity: Human, mouse	IF : HEK-293 cells,
Cited Species: rat, mouse, 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
Jiaqi Yao	37251314	Front Pharmacol	IHC

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

For technical support and original validation data for this product please contact:

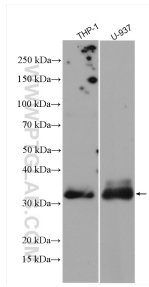
T: 4006900926

E: Proteintech-CN@ptglab.com

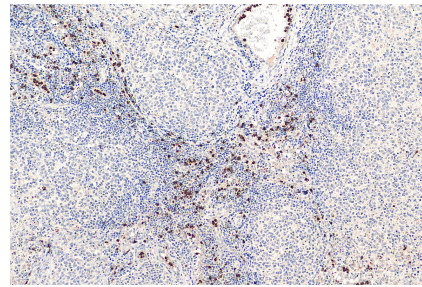
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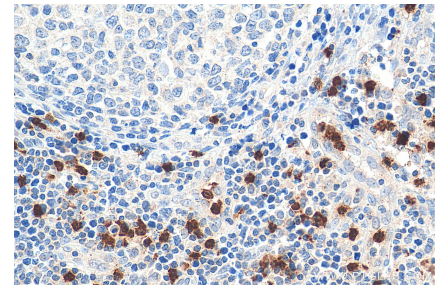
Selected Validation Data



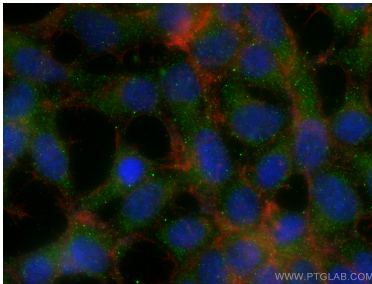
THP-1 cells were subjected to SDS PAGE followed by western blot with 27642-1-AP (ELA2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



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).