

Product datasheet for **AP02164SU-S**

Neutrophil Elastase (ELANE) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, R, WB
Recommended Dilution:	ELISA (1/8.000). RIA (1/10.000). Western blot (1/500).
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Human purified PMN Elastase
Specificity:	This antibody detects Human PMN Elastase. Other species not tested.
Formulation:	State: Serum State: Lyophilized serum
Reconstitution Method:	Restore in aqua bidest to initial volume.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	elastase, neutrophil expressed
Database Link:	Entrez Gene 1991 Human P08246



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Background:

Elastases form a subfamily of serine proteases that hydrolyse many proteins in addition to elastin. Neutrophil elastase (elastase 2) hydrolyses proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix following the protein's release from activated neutrophils. Elastase 2 may play a role in degenerative and inflammatory diseases by its proteolysis of collagen IV and elastin of the extracellular matrix. This protein degrades the outer membrane protein A (OmpA) of *E. coli* as well as the virulence factors of such bacteria as *Shigella*, *Salmonella* and *Yersinia*.

Synonyms:

ELANE, ELA2, Neutrophil elastase, Elastase-2, PMN elastase, Bone marrow serine protease, Medullasin, Human leukocyte elastase, HLE