

## Product datasheet for **BM382**

### Neutrophil Elastase (ELANE) Mouse Monoclonal Antibody [Clone ID: 39A]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	39A
Applications:	ELISA, FC, FN
Recommended Dilution:	<b>ELISA.</b> <b>Flow Cytometry.</b> <b>Functional Assays.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Elastase from Human Neutrophils.
Specificity:	This antibody is specific for Neutrophil Elastase.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	elastase, neutrophil expressed
Database Link:	<a href="#">Entrez Gene 1991 Human P08246</a>



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**Background:**

Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Elastase is a serine protease which exhibits endopeptidase activity on many proteins, its principal substrate, however, is elastin and it is unique among proteases in its ability to hydrolyse native elastin. It is present in the pancreas, leukocytes and serum. Elastase consists of a single polypeptide chain with a molecular weight of 29.5kDa. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Like most of the human elastases, elastase 2A is secreted from the pancreas as a zymogen. In other species, elastase 2A has been shown to preferentially cleave proteins after leucine, methionine, and phenylalanine residues. Elastase 1 is not a pancreatic enzyme: clinical literature that describes human elastase 1 activity in the pancreas is actually referring to elastase 2A.

**Synonyms:**

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