

ELANE monoclonal antibody

Catalog: MB22443

Host: Mouse

Reactivity: Human, Monkey

BackGround:

Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also degrades the outer membrane protein A (OmpA) of *E. coli* as well as the virulence factors of such bacteria as *Shigella*, *Salmonella* and *Yersinia*. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is present in a gene cluster on chromosome 19.

Product:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

28.5kDa

Swiss-Prot:

P08246

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

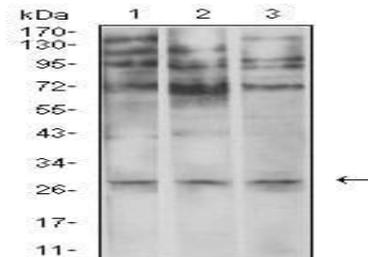
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

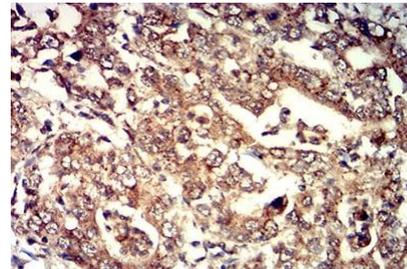
Isotype:

Mouse IgG1

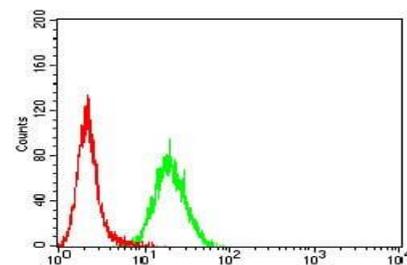
DATA:



Western blot analysis using ELANE mouse mAb against U937 (1), SPC-A-1 (2), and COS7 (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using ELANE mouse mAb with DAB staining.



Flow cytometric analysis of HeLa cells using ELANE mouse mAb (green) and negative control (red).

Note:

For research use only, not for use in diagnostic procedure.

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