

CAB8953

Product Information

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| Product SKU: CAB8953 | Gene ID: 1991 | Size: 20uL, 100uL |
| Clone No: ARC1364 | Host Species: Rabbit | Reactivity: Human, Mouse |

Additional Information

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| Observed MW: 30kDa | Conjugate: Unconjugated |
| Calculated MW: 29kDa | Isotype: IgG |

Immunogen Information

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| 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. |
| Recommended Dilution: | WB, 1:500 - 1:1000 IHC-P, 1:50 - 1:200 IF/ICC, 1:50 - 1:200 IP, 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells |
| Synonyms: | GE; NE; HLE; HNE; ELA2; SCN1; PMN-E; Neutrophil Elastase (ELANE) |
| Purification Method: | Affinity purification |
| Immunogen: | A synthetic peptide corresponding to a sequence within amino acids 167-267 of human Neutrophil Elastase (ELANE) (P08246). |
| Storage: | Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH 7.3. |