

Neutrophil Elastase (E9C9L) XP[®] Rabbit



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #P08246	Entrez-Gene Id: 1991
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		istry)		Dilution 1:1000 1:100 1:400
Storage		Flow Cytometry (Fixed/Permeabilized) 1:400 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		For a carrier free (BSA and azide free) version of this product see product #32541. Neutrophil Elastase (E9C9L) XP [®] Rabbit mAb recognizes endogenous levels of total neutrophil elastase protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human neutrophil elastase protein.				
Background		Neutrophil elastase is a hematopoietic serine protease that belongs to the chymotrypsin superfamily and plays a critical role in the innate immune function of mature neutrophils and monocytes (1,2). Neutrophil elastase is actively synthesized as an inactive zymogen in myelocytic precursor cells of the bone marrow, which then undergoes activation by limited proteolysis and sorting to primary (azurophil) storage granules of mature neutrophil granulocytes for regulated release (3,4). Research studies have shown that neutrophils play a significant role in mediating the inflammatory response through the release of neutrophil elastase, which activates pro-inflammatory cytokines and degrades components of the extracellular matrix and Gram-negative bacteria (5). Mutations in the gene encoding neutrophil elastase, <i>ELA2</i> , have been implicated in hematological diseases such as cyclic and severe congenital neutropenia, which is characterized by defects in promyelocyte maturation (6,7).				
Background Re	eferences	 Belaaouaj, A. et al. (2000) Science 289, 1185-8. Tkalcevic, J. et al. (2000) Immunity 12, 201-10. Gullberg, U. et al. (1999) J Immunol Methods 232, 201-10. Takahashi, H. et al. (1988) J Biol Chem 263, 2543-7. Adkison, A.M. et al. (2002) J Clin Invest 109, 363-71. Horwitz, M. et al. (1999) Nat Genet 23, 433-6. Bellanné-Chantelot, C. et al. (2004) Blood 103, 4119-25. 				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-

FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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