## Neutrophil Elastase (E9C9L) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08246	Entrez-Gene Id: 1991
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/Pe	ermeabilized)		<b>Dilution</b> 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>			
Specificity/Sensitivity		Neutrophil Elastase (E9C9L) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) 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.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Neutrophil Elastase (E9C9L) XP <sup>®</sup> Rabbit mAb #89241.			
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 Refe	erences	1. Belaaouaj, A. et al. (200 2. Tkalcevic, J. et al. (2000 3. Gullberg, U. et al. (1999) 4. Takahashi, H. et al. (1995) 5. Adkison, A.M. et al. (2006) 6. Horwitz, M. et al. (1999) 7. Bellanné-Chantelot, C.	) <i>Immunity</i> 12, 201-10. 9) <i>J Immunol Methods</i> 23 88) <i>J Biol Chem</i> 263, 2543 02) <i>J Clin Invest</i> 109, 363 1) <i>Nat Genet</i> 23, 433-6.	3-7. -71.	

**Species Reactivity** 

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

**Applications Key** FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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