

Rabbit Anti-Neutrophil Elastase [EP223]: RM0384

Intended Use: For Research Use Only

Description: Neutrophil Elastase (NE) is a 220 residue, single chain glycoprotein that functions as a potent serine protease. NE can degrade Omp, a structural protein localized on the cell wall of Gram-negative bacteria, and also has the capacity to attenuate the pathogenicity of invading microbes by targeting their virulence factor. NE is expressed in developing granulocytes in the bone marrow, stored in the azurophilic (primary) granules of mature neutrophils and released upon neutrophil activation or disintegration. Despite the fact that neutrophils carry large amount of NE, and are capable of synthesizing a variety of proteins, the NE gene is not expressed in mature neutrophils. Also, NE can be used as an additional marker to differentiate the involvement of neutrophilic myeloid cells. This marker is useful for differentiating leukemic infiltrates of myeloproliferative processes in lymph nodes and other organs from undifferentiated carcinomas and/or histiocytic sarcomas or large cell lymphomas.

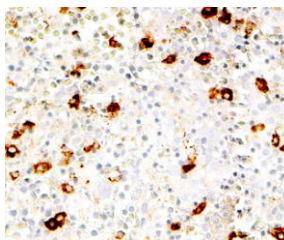
Specifications

Clone: EP223
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
Neutrophil Elastase Concentrated	RM0384	1 ml

IHC Procedure

Positive Control: Spleen, granulocytic leukemia
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FPPE human bone marrow stained with anti-Neutrophil Elastase using DAB

References:

1. Serological assessment of neutrophil elastase activity on elastin during lung ECM remodeling. Kristensen JH, et al. BMC Pulm Med. May 3;15:53, 2015.
2. NAD(P)H quinone oxidoreductase 1 regulates neutrophil elastase-induced mucous cell metaplasia. Meyer ML, et al. Am J Physiol Lung Cell Mol Physiol. Aug 1;303(3):L181-8, 2012.

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