abcam

Product datasheet

Anti-Neutrophil Elastase antibody [11-207.2] ab41179

1 References

Overview

Product name	Anti-Neutrophil Elastase antibody [11-207.2]
Description	Mouse monoclonal [11-207.2] to Neutrophil Elastase
Host species	Mouse
Tested applications	**Suitable for:** ELISA, Inhibition Assay
Species reactivity	**Reacts with:** Human
Immunogen	Full length native protein (purified) (Human) Neutrophil Elastase
General notes	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: PBS, pH 7.4
Purity	Purified IgM
Purification notes	PEG precipitated purified antibody.
Clonality	Monoclonal
Clone number	11-207.2
Isotype	IgM

Applications

Our Abpromise guarantee covers the use of **ab41179** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/800.
Inhibition Assay		Use at an assay dependent dilution.

Target

Function
Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis.

Tissue specificity
Bone marrow cells.

Involvement in disease
Defects in ELANE are a cause of cyclic haematopoiesis (CH) [MIM:162800]; also known as cyclic neutropenia. CH is an autosomal dominant disease in which blood-cell production from the bone marrow oscillates with 21-day periodicity. Circulating neutrophils vary between almost normal numbers and zero. During intervals of neutropenia, affected individuals are at risk for opportunistic infection. Monocytes, platelets, lymphocytes and reticulocytes also cycle with the same frequency.
Defects in ELANE are the cause of neutropenia severe congenital autosomal dominant type 1 (SCN1) [MIM:202700]. SCN1 is a disorder of hematopoiesis characterized by a maturation arrest of granulopoiesis at the level of promyelocytes with peripheral blood absolute neutrophil counts below 0.5 x 10(9)/l and early onset of severe bacterial infections.

Sequence similarities
Belongs to the peptidase S1 family. Elastase subfamily.
Contains 1 peptidase S1 domain.

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