

Anti-Neutrophil elastase [NP57]

Catalogue number: 151398

Sub-type: Primary antibody

Images:

Contributor

Inventor: Karen Pulford

Institute: University of Oxford

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Neutrophil elastase [NP57]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody with use in diagnosis of acute leukaemia and tumour deposits in myeloid leukaemia.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1 kappa

Reactivity: Human

Selectivity:

Host: Mouse

Immunogen: Neutrophil granule proteins

Immunogen UNIPROT ID: P08246

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Neutrophil elastase

Target alternate names:

Target background: Human Neutrophil Elastase (HNE) belongs to the chymotrypsin family of serine proteases able to solubilize fibrous elastin, an important extracellular matrix protein that has the unique property of elastic recoil, and plays a major structural function in lungs, arteries, skin and ligaments. HNE is primarily located in the azurophil granules of polymorphonuclear leukocytes, but has also been detected in nuclear membrane, Golgi complex, ER and the mitochondria of these cells. The enzyme is involved in the tissue destruction and inflammation and implicated in numerous diseases, including emphysema, chronic obstructive pulmonary disease, cystic fibrosis, ischemic-reperfusion injury and rheumatoid arthritis. NP57 is useful for the differential diagnosis of acute leukaemia by APAAP labelling of cell smears. It may also be of value for the histopathological diagnosis of tumour deposits in myeloid leukaemia and for the detection of neutrophils in paraffin sections.

Molecular weight: 150 kDa (full length)

Ic50:

Applications

Application: IHC ; IF ; IP ; WB

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: Store at -20° C frozen. Avoid repeated freeze / thaw cycles

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Marafioti et al. 2004. Haematologica. 89(8):957-64. PMID: 15339679. ; Leukocyte-specific phosphoprotein-1 and PU.1: two useful markers for distinguishing T-cell-rich B-cell lymphoma from lymphocyte-predominant Hodgkin's disease. ; Marafioti et al. 2003. Br J Haematol. 120(4):671-8. PMID: 12588355. ; Leukocyte-specific protein (LSP1) in malignant lymphoma and Hodgkin's disease. ; Pulford et al. 1999. Immunology. 96(2):262-71. PMID: 10233704. ; Lymphocyte-specific protein 1: a specific marker of human leucocytes.

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