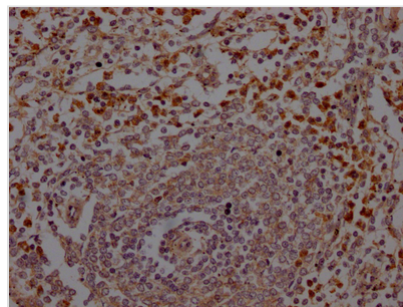




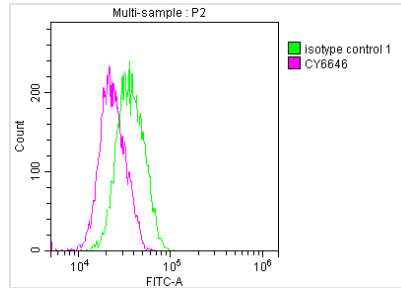
ELANE Antibody

Product Code	CSB-RA200985A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P08246
Immunogen	A synthesized peptide derived from human Neutrophil Elastase
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:20-1:200
Relevance	Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Immunology; Microbiology; Signal transduction
Gene Names	ELANE
Accession NO.	2H12

Image



IHC image of CSB-RA200985A0HU diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Overlay histogram showing Jurkat cells stained with CSB-RA200985A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1*10^6\text{cells}$) for 1 h at 4°C . The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C . Control antibody (green line) was Rabbit IgG ($1\mu\text{g}/1*10^6\text{cells}$) used under the same conditions. Acquisition of $>10,000$ events was performed.

Description

ELANE encodes neutrophil elastase (NE), a serine protease that is necessary for neutrophil activity and is involved in the inflammatory response to tissue injuries such as sepsis or arthritis. In more than half of SCN cases, the NE gene has been mutated. Though NE is primarily engaged in the antibacterial response, it can have a number of negative consequences, including extracellular matrix breakdown, mucus gland hyperplasia and increased mucus production, ciliary beating rate reduction, and direct injury to the airway epithelium.

The production of this recombinant ELANE antibody started with identifying and cloning the genes for antibody expression. After the ELANE antibody was cloned into an expression plasmid, the plasmid could be introduced into the mammalian cell to produce the target recombinant antibody. This recombinant ELANE antibody has been validated in ELISA, IHC, FC.