ARG66420
anti-IL8 antibody [SQab18122]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab18122] recognizes IL8
Tested Reactivity	Hu
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	SQab18122
Isotype	IgG1, kappa
Target Name	IL8
Species	Human
Immunogen	Recombinant Human IL8 protein.
Conjugation	Un-conjugated
Alternate Names	IL8/NAP1 form IV; GCP/IL-8 protein IV; NAF; T-cell chemotactic factor; 1-77; Ala-IL-8; Interleukin-8; IL-8; Neutrophil-activating protein 1; GCP/IL-8 protein II; IL8/NAP1 form II; GCP/IL-8 protein V; MDNCF; Protein 3-10C; Lymphocyte-derived neutrophil-activating factor; Neutrophil-activating factor; Granulocyte chemotactic protein 1; LYNAP; NAP-1; Monocyte-derived neutrophil chemotactic factor; 6-77; 7-77; C-X-C motif chemokine 8; GCP1; NAP1; Ser-IL-8; 5-77; GCP/IL-8 protein VI; IL8/NAP1 form I; IL8/NAP1 form VI; Monocyte-derived neutrophil-activating peptide; C-X-C motif; 8-77; 9-77; LUCT; Chemokine; GCP-1; MDNCF-b; MDNCF-c; IL8/NAP1 form V; LECT; IL8/NAP1 form III; GCP/IL-8 protein III; Emoctakin; GCP/IL-8 protein I; MONAP; IL8

Application Instructions

Application table

Application	Dilution
ELISA	1:3000 - 1:10000
FACS	1:400 - 1:1000
ICC/IF	1:400 - 1:1000
IHC-P	Assay-dependent
WB	1:2500 - 1:5000

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

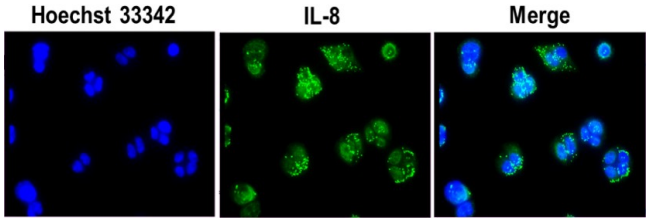
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4) and 0.01% Thimerosal.
Preservative	0.01% Thimerosal

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

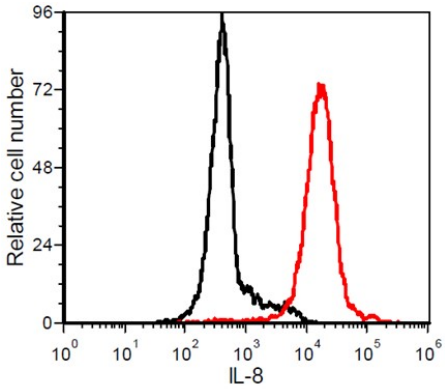
Gene Symbol	CXCL8
Gene Full Name	chemokine (C-X-C motif) ligand 8
Background	The protein encoded by this gene is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q. [provided by RefSeq, Jul 2008]
Function	IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as compared to IL-8(1-77), respectively. [UniProt]
Highlight	Related products: IL8 antibodies; IL8 ELISA Kits; IL8 Duos / Panels; IL8 recombinant proteins; Anti-Mouse IgG secondary antibodies; Related news: HMGB1 in inflammation Inflammatory Cytokines
Calculated Mw	11 kDa
PTM	Several N-terminal processed forms are produced by proteolytic cleavage after secretion from at least peripheral blood monocytes, leukcocytes and endothelial cells. In general, IL-8(1-77) is referred to as interleukin-8. IL-8(6-77) is the most promiment form. Citrullination at Arg-27 prevents proteolysis, and dampens tissue inflammation, it also enhances leukocytosis, possibly through impaired chemokine clearance from the blood circulation. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



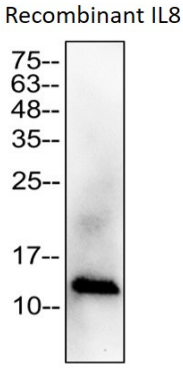
ARG66420 anti-IL8 antibody [SQab18122] ICC/IF image

Immunofluorescence: HeLa cells were fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100. Cells were stained with ARG66420 anti-IL8 antibody [SQab18122] (green) at 1:200 dilution and cell nuclei were stained with Hoechst 33342 (blue).



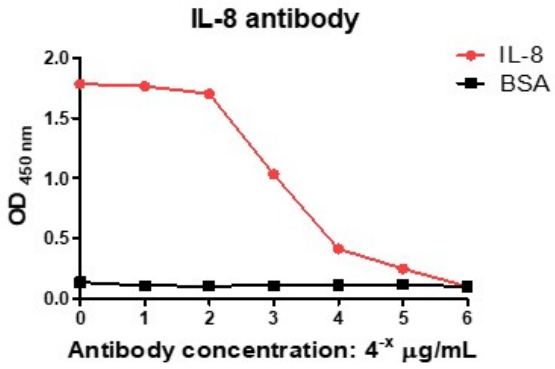
ARG66420 anti-IL8 antibody [SQab18122] FACS image

Flow Cytometry: Human peripheral blood mononuclear cells (PBMC) were stained with ARG66420 anti-IL8 antibody [SQab18122] at 2 µg/ml dilution (red) and without antibody control (black).



ARG66420 anti-IL8 antibody [SQab18122] WB image

Western blot: 100 ng of Recombinant IL8 protein was stained with ARG66420 anti-IL8 antibody [SQab18122] at 1:5000 dilution.



ARG66420 anti-IL8 antibody [SQab18122] ELISA image

ELISA: Titration curve of ARG66420 anti-IL8 antibody [SQab18122]. Red: IL8; Black: BSA (negative control).