ARG64813
anti-S100A9 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes S100A9
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	S100A9
Species	Human
Immunogen	C-DTNADKQLSFEEF
Conjugation	Un-conjugated
Alternate Names	Calgranulin-B; MRP-14; MRP14; 60B8AG; CFAG; MAC387; Calprotectin L1H subunit; NIF; MIF; p14; LIAG; Protein S100-A9; CGLB; Migration inhibitory factor-related protein 14; L1AG; Leukocyte L1 complex heavy chain; P14; CAGB; S100 calcium-binding protein A9

Application Instructions

Application table

Application	Dilution
FACS	10 µg/ml
ICC/IF	10 µg/ml
IHC-P	2.5 µg/ml
WB	0.5 - 2 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

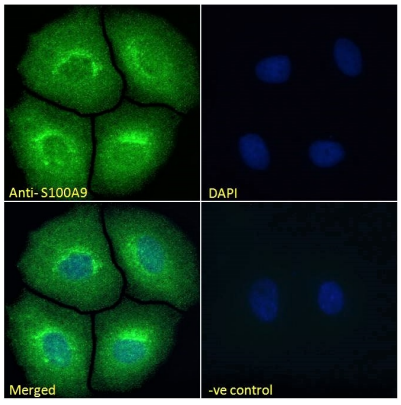
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

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

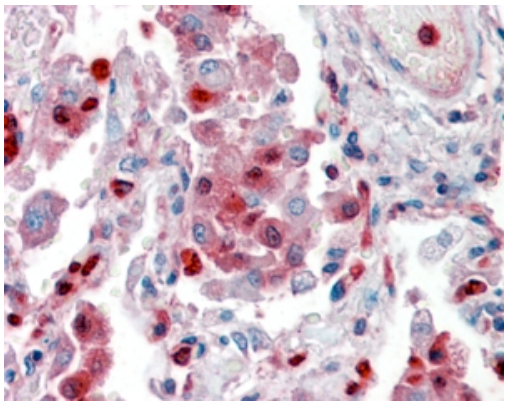
Database links	GeneID: 6280 Human Swiss-port # P06702 Human
Background	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. [provided by RefSeq, Jul 2008]
Highlight	Related products: S100A antibodies; S100A ELISA Kits; Anti-Goat IgG secondary antibodies; Related news: HMGB1, a biomarker and therapeutic target in COVID-19
Research Area	Cancer antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	13 kDa
PTM	Phosphorylated. Phosphorylation inhibits activation of tubulin polymerization. S-nitrosylation of Cys-3 is implicated in LDL(ox)-induced S-nitrosylation of GAPDH at 'Cys-247' through a transnitrosylase mechanism involving a iNOS-S100A8/9 complex (PubMed:25417112).

Images



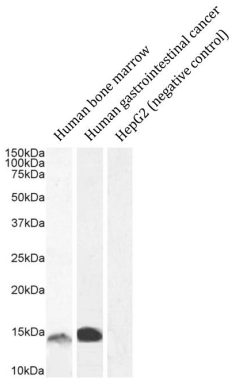
ARG64813 anti-S100A9 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed MCF7 cells permeabilized with 0.15% Triton. Cells were stained with ARG64813 anti-S100A9 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized Goat IgG (green) at 10 µg/ml dilution.



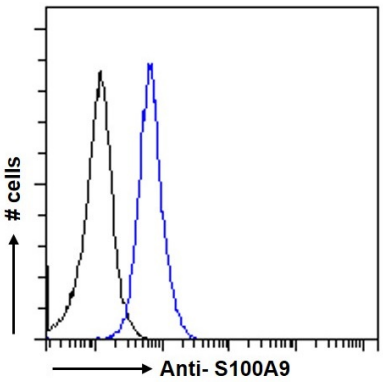
ARG64813 anti-S100A9 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64813 anti-S100A9 antibody at 2.5 µg/ml dilution followed by AP-staining.



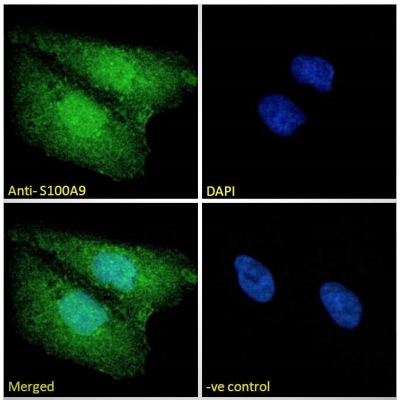
ARG64813 anti-S100A9 antibody WB image

Western blot: 35 µg of Human bone marrow, Human gastrointestinal cancer and HepG2 cell lysates (negative control) stained with ARG64813 anti-S100A9 antibody at 1 µg/ml (bone marrow) and 0.5 µg/ml (gastrointestinal cancer) dilutions and incubated at RT for 1 hour.



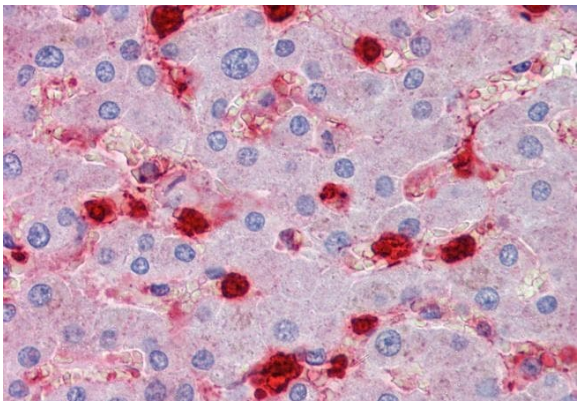
ARG64813 anti-S100A9 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed MCF7 cells permeabilized with 0.5% Triton. Cells were stained with ARG64813 anti-S100A9 antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa Fluor® 488 labelled secondary antibody. IgG control: Unimmunized Goat IgG (black line), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.



ARG64813 anti-S100A9 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG64813 anti-S100A9 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized Goat IgG (green) at 10 µg/ml dilution.



ARG64813 anti-S100A9 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64813 anti-S100A9 antibody at 2.5 µg/ml dilution followed by AP-staining.