

S100A9 Recombinant antibody

Catalog Number: 83578-6-RR

Basic Information

Catalog Number:

83578-6-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25764

GenBank Accession Number:

BC047681

GeneID (NCBI):

6280

UNIPROT ID:

P06702

Full Name:

S100 calcium binding protein A9

Calculated MW:

13 kDa

Purification Method:

Protein A purification

CloneNo.:

240539F4

Recommended Dilutions:

IF/ICC 1:125-1:500

Applications

Tested Applications:

IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : RAW 264.7 cells,

Background Information

S100A9 is a calcium binding protein as a member of the S100 family of proteins. S100 proteins are low molecular weight (9 to 14 kDa) intracellular calcium-binding proteins that control key cellular pathways including regulation of the cytoskeleton, cell migration and adhesion, and host oxidative defense. S100A9 may exist as a homodimer, heterodimer (24 kDa) with an S100A8 partner (S100A8/A9), or as a heterotetramer (28 kDa) with an S100A8 partner (S100A8/A9). S100A8 and S100A9 are found intracellularly in granulocytes, monocytes, and early differentiation stages of macrophages.

Storage

Storage:

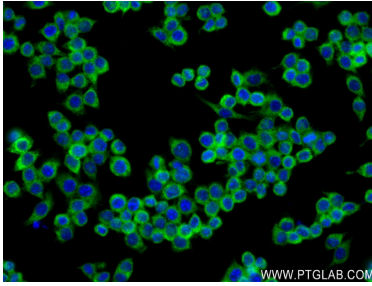
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

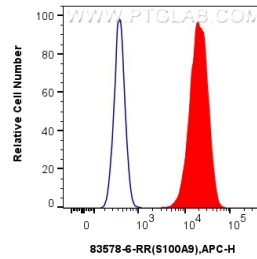
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

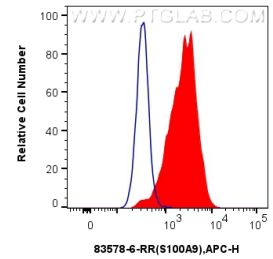
Selected Validation Data



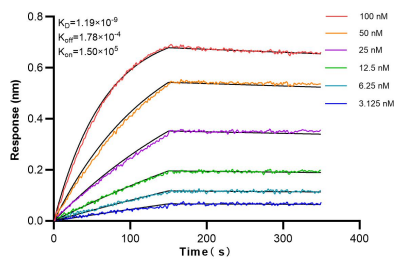
Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using S100A9 antibody (83578-6-RR, Clone: 240539F4) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ A431 cells were intracellularly stained with 0.25 µg S100A9 Recombinant antibody (83578-6-RR, Clone:240539F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 µg Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1x10⁶ Jurkat cells were intracellularly stained with 0.25 µg S100A9 Recombinant antibody (83578-6-RR, Clone:240539F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 µg Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83578-6-RR against Human S100A9 were performed. The affinity constant is 1.19 nM.