

For Research Use Only

S100A9 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 83578-6-PBS



Basic Information

Catalog Number:

83578-6-PBS

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:

FC (Intra): 0.25 ug per 10^6 cells in a 100 μ l suspension

Applications

Tested Applications:

IF/ICC, FC (Intra), Sandwich ELISA, Indirect ELISA

Species Specificity:

human

Positive Controls:

FC (Intra): A431 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 -80°C .

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

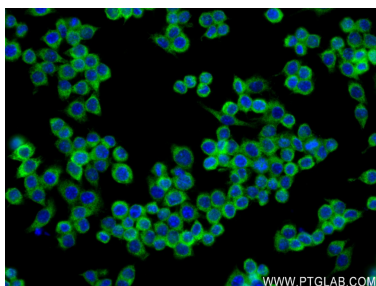
T: 4006900926

E: Proteintech-CN@ptglab.com

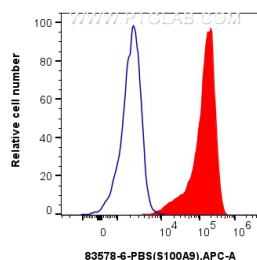
W: ptgcn.com

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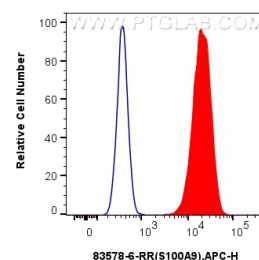
Selected Validation Data



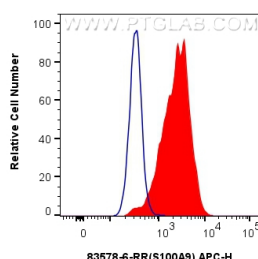
Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using S100A9 antibody (83578-6-RR, Clone: 240539F4) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83578-6-PBS in a different storage buffer formulation.



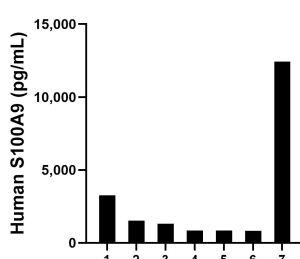
1x10⁶ A431 cells were intracellularly stained with 0.25 ug S100A9 Recombinant antibody, PBS Only (Detector) (83578-6-PBS, Clone:240539F4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



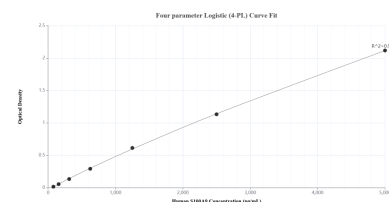
1x10⁶ A431 cells were intracellularly stained with 0.25 ug S100A9 Recombinant antibody (83578-6-RR, Clone:240539F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83578-6-PBS in a different storage buffer formulation.



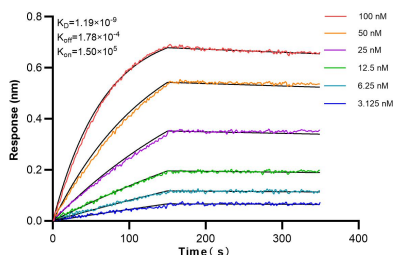
1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug S100A9 Recombinant antibody (83578-6-RR, Clone:240539F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83578-6-PBS in a different storage buffer formulation.



Serum of seven individual healthy human donors was measured. The S100A9 concentration of detected samples was determined to be 3,005.7 pg/mL with a range of 818.9-12,431.7 pg/mL.



Sandwich ELISA standard curve of MP00569-4, Human S100A9 Recombinant Matched Antibody Pair - PBS only. 83578-8-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag25764. 83578-6-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



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