

For Research Use Only

# Anti-Mouse S100A9 Rabbit Recombinant Antibody

Catalog Number: 98505-5-RR



## Basic Information

Catalog Number:

98505-5-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2600

GenBank Accession Number:

NM\_001281852.1

GeneID (NCBI):

20202

UNIPROT ID:

P31725

Full Name:

S100 calcium binding protein A9  
(calgranulin B)

Calculated MW:

13 kDa

Purification Method:

Protein A purification

CloneNo.:

250759F10

Recommended Dilutions:

IHC: 1:500-1:2000

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a  
100 µl suspension

## Applications

Tested Applications:

IHC, FC (Intra)

Species Specificity:

mouse

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

Positive Controls:

IHC: mouse spleen tissue,

FC (Intra): C57BL/6 bone marrow 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 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

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

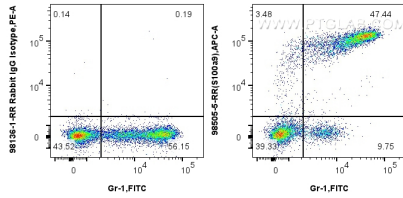
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

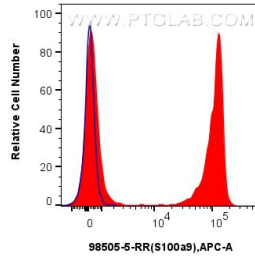
W: [ptgcn.com](http://ptgcn.com)

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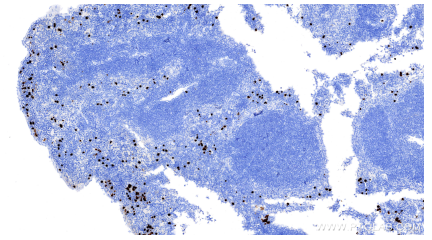
## Selected Validation Data



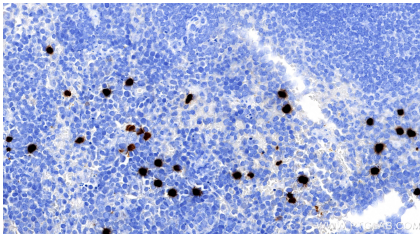
1x10<sup>6</sup> C57BL/6 bone marrow cells were intracellularly stained with 0.25 ug Anti-Mouse S100a9 Rabbit RecAb (98505-5-RR, Clone:250759F10), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone:240953C9) and CoraLite647-conjugated F(ab')<sub>2</sub> Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7). Cells were then stained with FITC Plus Anti-Mouse Ly-6G/Ly-6C (Gr-1). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation &



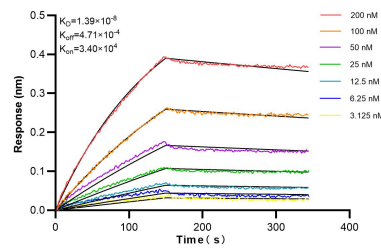
1x10<sup>6</sup> C57BL/6 bone marrow cells were intracellularly stained with 0.25 ug Anti-Mouse S100a9 Rabbit RecAb (98505-5-RR, Clone:250759F10)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone:240953C9)(blue) and CoraLite647-conjugated F(ab')<sub>2</sub> Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 98505-5-RR (S100A9 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 98505-5-RR (S100A9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 98505-5-RR against Mouse S100A9 were performed. The affinity constant is 13.9 nM.