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# S100A8 Rabbit PolymAb®

**Catalog No.: A28568PM**

## Basic Information

**Observed MW**
11 kDa

**Calculated MW**
10 kDa/11 kDa

**Category**
Primary antibody

**Applications**
WB,IF-P,IHC-P,ELISA

**Cross-Reactivity**
Human, Mouse

## 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 as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis. Multiple transcript variants encoding different isoforms have been found for this gene. Predicted to enable calcium ion binding activity and calcium-dependent protein binding activity. Acts upstream of or within astrocyte development and positive regulation of peptide secretion. Predicted to be located in cytosol; extracellular space; and intermediate filament cytoskeleton. Predicted to be part of S100A8 complex and calprotectin complex. Predicted to be active in cytoplasm. Is expressed in several structures, including bone marrow; extraembryonic component; liver; mesometrium; and placenta. Human ortholog(s) of this gene implicated in myocarditis. Orthologous to human S100A8 (S100 calcium binding protein A8).

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:1000 - 1:30000 |
| **IF-P** | 1:200 - 1:2000 |
| **IHC-P** | 1:2000 - 1:8000 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000) |

## Immunogen Information

**Gene ID**
6279/20201

**Swiss Prot**
P05109/P27005

**Immunogen**
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

**Synonyms**
P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG; S100-A8; S100A8; B8Ag; CFAg; Caga; 60B8Ag

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Contact


400-999-6126

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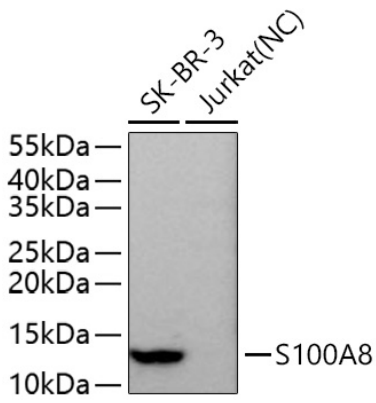
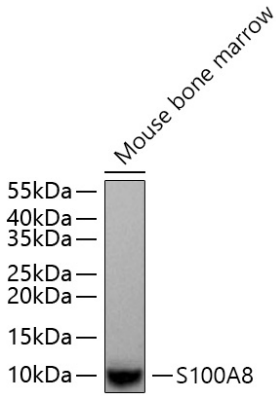
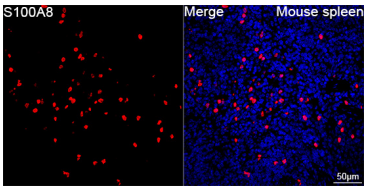
## Validation Data



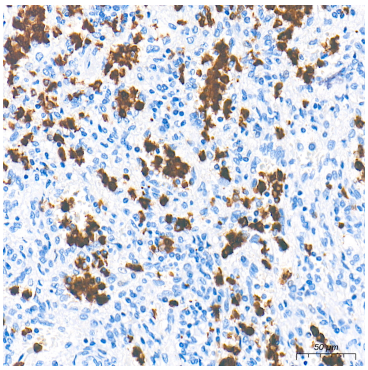

Western blot analysis of various lysates using S100A8 Rabbit PolymAb® (A28568PM) at 1:9000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Jurkat.
Exposure time: 90 s.



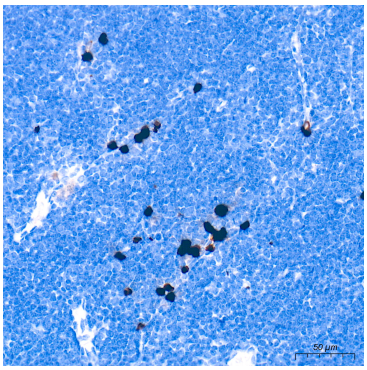

Western blot analysis of lysates from Mouse bone marrow using S100A8 Rabbit PolymAb® (A28568PM) at 1:30000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.




Confocal imaging of paraffin-embedded Mouse spleen tissue using S100A8 Rabbit PolymAb® (A28568PM, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using S100A8 Rabbit PolymAb® (A28568PM) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse thymus tissue using S100A8 Rabbit PolymAb® (A28568PM) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.