

Datasheet for ABIN3042482
anti-S100A9 antibody (AA 2-113)

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Overview

Quantity:	100 µg
Target:	S100A9
Binding Specificity:	AA 2-113
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This S100A9 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Protein S100-A9(S100A9) detection. Tested with WB, IHC-P, ELISA in Mouse,Rat.
Immunogen:	E. coli-derived mouse S100A9 recombinant protein (Position: A2-K113). Mouse S100A9 shares 59.8% and 78.6% amino acid (aa) sequence identity with human and rat S100A9, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Protein S100-A9(S100A9) detection. Tested with WB, IHC-P, ELISA in Mouse,Rat.</p> <p>Gene Name: S100 calcium binding protein A9</p> <p>Protein Name: Protein S100-A9</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	S100A9
Alternative Name:	S100A9 (S100A9 Products)
Background:	<p>S100 calcium-binding protein A9 (S100A9), also known as migration inhibitory factor-related protein 14 (MRP14) or calgranulin B, is a protein that in humans is encoded by the S100A9 gene. S100-A9 is a member of the S100 family of proteins containing 2 EF hand calcium-binding motifs. And 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.</p> <p>Synonyms: Leukocyte L1 complex heavy chain antibody 60B8AG antibody AW546964 antibody BEE22 antibody CAGB antibody Calgranulin B antibody Calgranulin-B antibody Calprotectin L1H subunit antibody CFAG antibody CGLB antibody Cystic fibrosis antigen antibody Cystic fibrosis antigen B antibody HGNC:10499 antibody L1AG antibody Leukocyte L1 complex heavy chain antibody LIAG antibody MAC 387 antibody MAC387 antibody MIF antibody Migration inhibitory factor related protein 14 antibody Migration inhibitory factor-related protein 14 antibody MRP 14 antibody MRP 8 antibody MRP-14 antibody MRP14 antibody Myeloid-related protein 14 antibody NIF antibody OTTHUMP00000015331 antibody P14 antibody Protein S100-A9 antibody S100 A9 antibody S100 calcium binding protein A9 antibody S100 calcium binding protein A9 calgranulin B antibody S100 calcium-binding protein A9 antibody S100A9 antibody S10A9_HUMAN antibody</p>
Gene ID:	20202
UniProt:	P31725
Pathways:	Transition Metal Ion Homeostasis , Positive Regulation of Endopeptidase Activity , S100 Proteins

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse</p>
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Application Details

Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

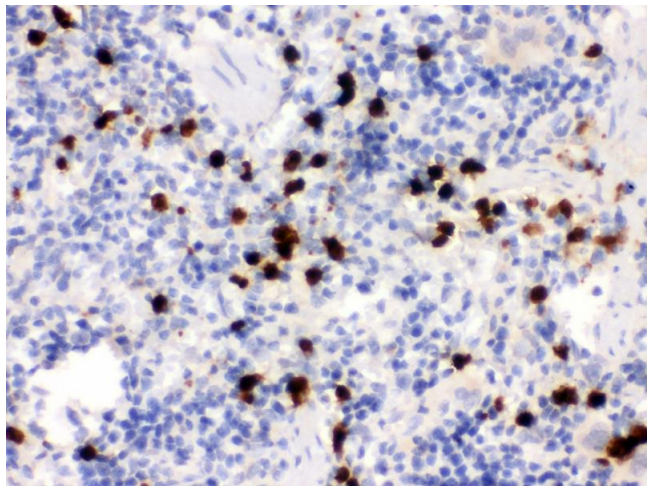
Product cited in: Zhang, Yan, Xu, Fang, Zhang, Zhang, Wu, Kong, Huang: "The recovery trajectory of adolescent social defeat stress-induced behavioral, (1)H-MRS metabolites and myelin changes in Balb/c mice." in: **Scientific reports**, Vol. 6, pp. 27906, (2018) ([PubMed](#)).

Sun, Hu, Xiong, Tu, Zhao, Chen, Song, Ye: "Enhanced expression of stem cell markers and drug resistance in sphere-forming non-small cell lung cancer cells." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 6, pp. 6287-300, (2016) ([PubMed](#)).

Yang, Gao, Zhang, Fang, Wu, Xu, Huang: "Changes in proinflammatory cytokines and white

matter in chronically stressed rats." in: **Neuropsychiatric disease and treatment**, Vol. 11, pp. 597-607, (2015) ([PubMed](#)).

Images



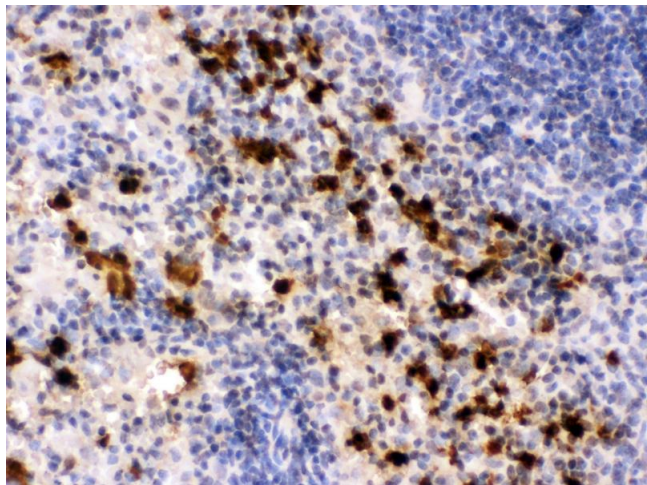
Immunohistochemistry

Image 1. Anti- S100A9 Picoband antibody, IHC(P) IHC(P):
Rat Spleen Tissue



Western Blotting

Image 2. Observed bind size: 13KD



Immunohistochemistry

Image 3. Anti- S100A9 Picoband antibody, IHC(P) IHC(P):
Mouse Spleen Tissue