

Datasheet for ABIN3043321 anti-S100A9 antibody (AA 2-114)



[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	100 µg
Target:	S100A9
Binding Specificity:	AA 2-114
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
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 Human.
Immunogen:	E. coli-derived human S100A9 recombinant protein (Position: T2-P114). Human S100A9 shares 59.8% and 64.5% amino acid (aa) sequence identity with mouse and rat S100A9, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Protein S100-A9(S100A9) detection. Tested with WB, IHC-P, ELISA in Human. Gene Name: S100 calcium binding protein A9 Protein Name: Protein S100-A9
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:	6280
UniProt:	P06702
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: Human</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, 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: Human</p>
--------------------	---

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: Yao, Zhao, Ou, Liang, Lin, Wang: "MicroRNA-214 Suppresses Osteogenic Differentiation of Human Periodontal Ligament Stem Cells by Targeting ATF4." in: **Stem cells international**, Vol. 2017, pp. 3028647, (2017) ([PubMed](#)).

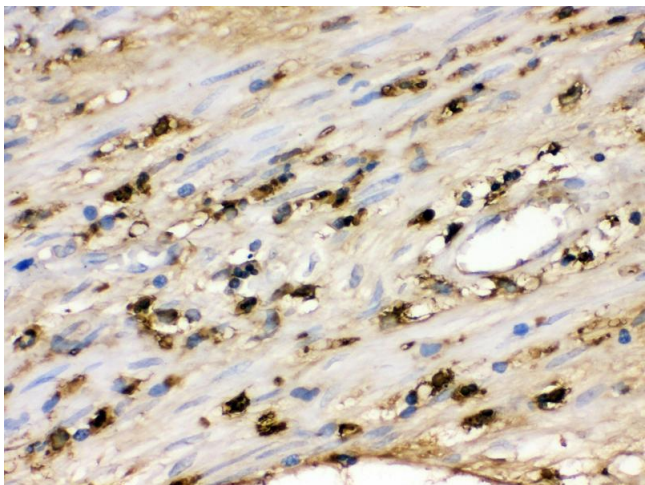
Wang, Wang, Dai, Chen, Yang, Dai, Ou, Wang, Lin: "Effects of Intermittent Administration of Parathyroid Hormone (1-34) on Bone Differentiation in Stromal Precursor Antigen-1 Positive Human Periodontal Ligament Stem Cells." in: **Stem cells international**, Vol. 2016, pp. 4027542, (2016) ([PubMed](#)).

Li, Chen, Peng, Zhou, Fang: "Pulsed electromagnetic fields protect the balance between adipogenesis and osteogenesis on steroid-induced osteonecrosis of femoral head at the pre-collapse stage in rats." in: **Bioelectromagnetics**, Vol. 35, Issue 3, pp. 170-80, (2014) ([PubMed](#)).

Song, Yu, Zhao, Wei, Liu, Hu, Zhao, Yang, Wu: "The time-dependent manner of sinusoidal electromagnetic fields on rat bone marrow mesenchymal stem cells proliferation, differentiation, and mineralization." in: **Cell biochemistry and biophysics**, Vol. 69, Issue 1, pp. 47-54, (2014) ([PubMed](#)).

Mu, Lv, Wang, Ma, Ma, Liu, Yu, Mu: "Mechanical stress stimulates the osteo/odontoblastic differentiation of human stem cells from apical papilla via erk 1/2 and JNK MAPK pathways." in: **BioMed research international**, Vol. 2014, pp. 494378, (2014) ([PubMed](#)).

Images



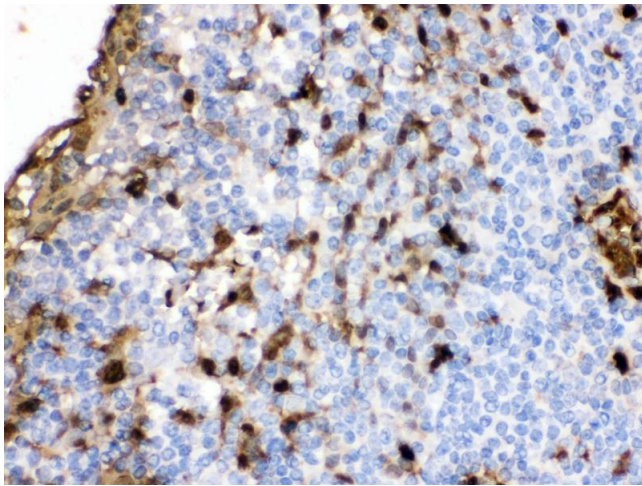
Immunohistochemistry

Image 1. IHC(P): Human Appendicitis Tissue



Western Blotting

Image 2. Observed bind size: 13KD



Immunohistochemistry (Paraffin-embedded Sections)

Image 3.