

S100A10 Rabbit mAb**Catalog No.: A30001****Recombinant****Basic Information****Observed MW**

11 kDa

Calculated MW

11 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF-F, IHC-P, ELISA

Cross Reactivity

Mouse, Rat

Clone No.

ARC85394

Background

Predicted to enable several functions, including calcium-dependent protein binding activity; protein homodimerization activity; and transmembrane transporter binding activity. Involved in mRNA transcription by RNA polymerase II; positive regulation of transcription by RNA polymerase II; and regulation of neurogenesis. Located in cell surface and plasma membrane. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; heart and pericardium; and sensory organ. Orthologous to human S100A10 (S100 calcium binding protein A10).A10).

Recommended Dilutions**WB** 1:4000 - 1:20000**IP**

0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells

IF-F 1:200 - 1:1000**IHC-P** 1:2000 - 1:12000**ELISA**

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information**Gene ID**

20194

Swiss-Prot

P08207

Immunogen

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

Synonyms

42C; p10; p11; CAL12; CLP11; Cal1l

Contact
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 | cn.market@abclonal.com.cn
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Product Information**Source**

Rabbit

Isotype

IgG

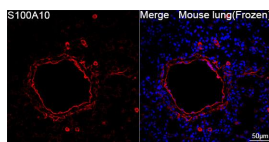
Purity

Affinity purification

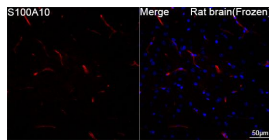
Storage

Store at -20°C. Avoid freeze / thaw cycles.

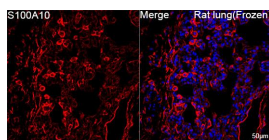
Validation Data



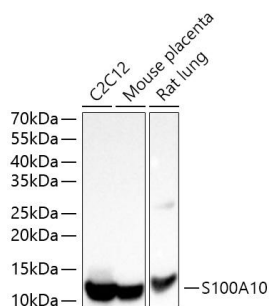
Confocal imaging of frozen sections of Mouse lung tissue using S100A10 Rabbit mAb (A30001, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat brain tissue using S100A10 Rabbit mAb (A30001, 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). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



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Western blot analysis of various lysates using S100A10 Rabbit mAb (A30001) at 1:8000 dilution incubated overnight at 4°C.

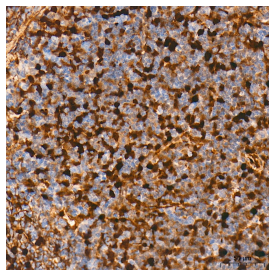
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

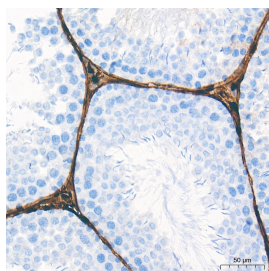
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

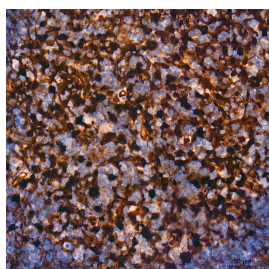
Exposure time: 1 s.



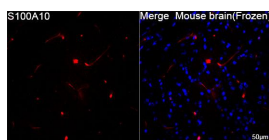
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using S100A10 Rabbit mAb (A30001) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



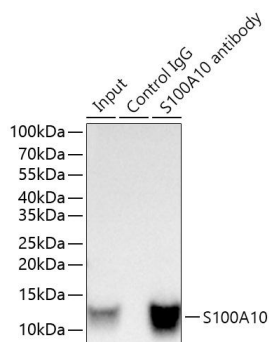
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using S100A10 Rabbit mAb (A30001) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat thymus tissue using S100A10 Rabbit mAb (A30001) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of frozen sections of Mouse brain tissue using S100A10 Rabbit mAb (A30001, 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). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunoprecipitation of S100A10 from 300 μ g extracts of C2C12 cells was performed using 2 μ g of S100A10 Rabbit mAb (A30001). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using S100A10 Rabbit mAb (A30001) at a dilution of 1:5000.