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S100B Rabbit mAb

Catalog No.: A19108   Recombinant   7 Publications

Basic Information

Observed MW
11kDa

Calculated MW
11kDa

Category
SMab Recombinant Monoclonal
Antibody

Applications
WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC50351

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; however, this gene is located at 21q22.3. This protein may function in Neurite extension, proliferation of melanoma cells, stimulation of Ca2+ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.

Recommended Dilutions

WB	1:1000 - 1:4000
IHC-P	1:5000 - 1:20000
IF/ICC	1:200 - 1:2000
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6285

Swiss Prot
P04271

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

Synonyms
NEF; S100; S100-B; S100beta; S100B

Product Information

Source	**Isotype**	**Purification**
Rabbit	IgG	Affinity purification

Storage
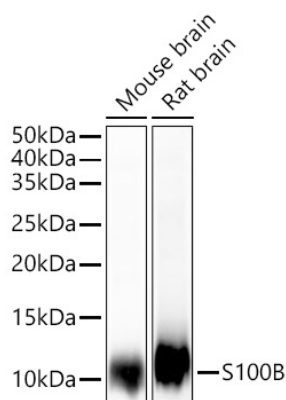Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.
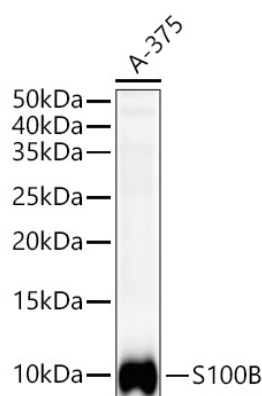
Contact

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Validation Data

Western blot analysis of various lysates using S100B Rabbit mAb (A19108) at 1:1000 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.
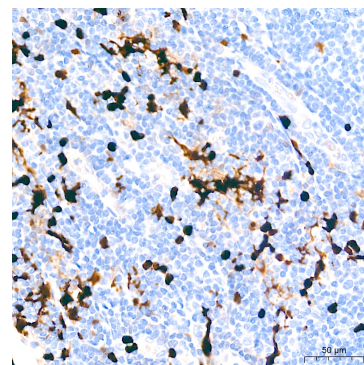Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.

Western blot analysis of lysates from A-375 cells using S100B Rabbit mAb (A19108) at 1:1000 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: 30s.
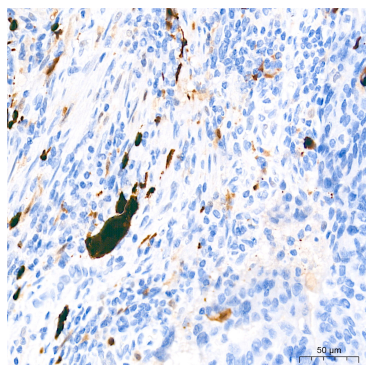
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
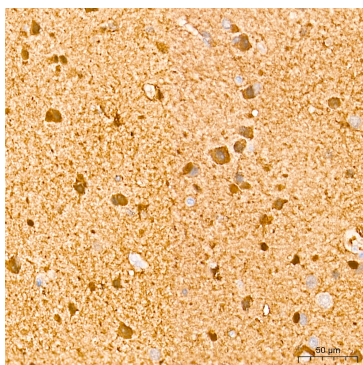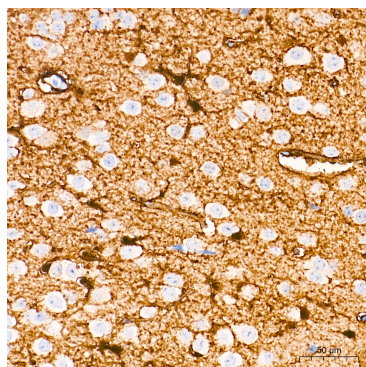

Immunohistochemistry analysis of paraffin-embedded Human brain tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
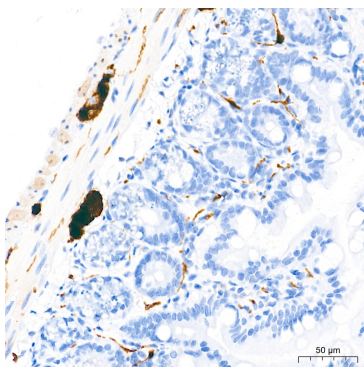

Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
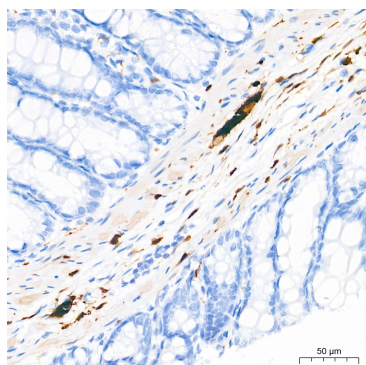
Validation Data

Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
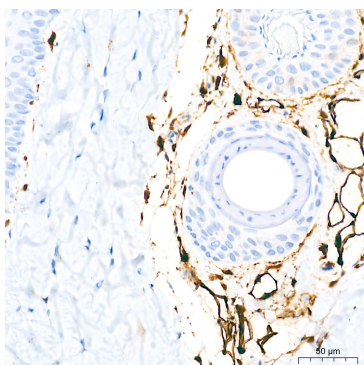

Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
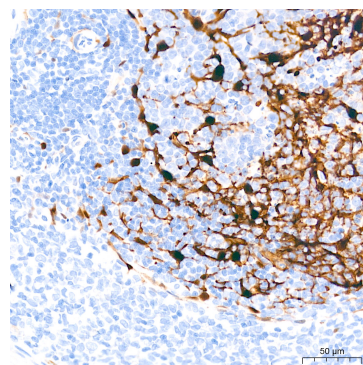

Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
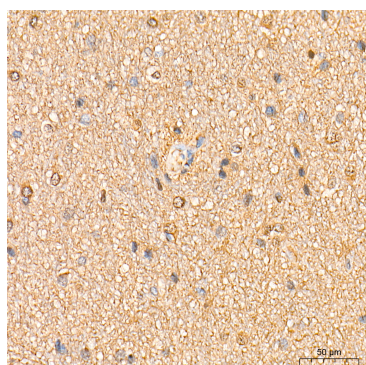

Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
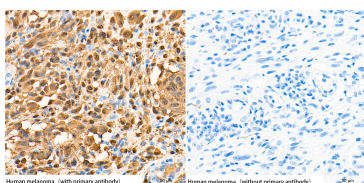

Immunohistochemistry analysis of paraffin-embedded Rat skin tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
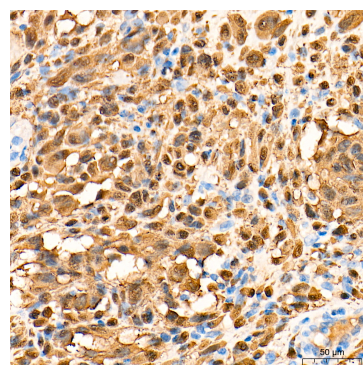

Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human brain gliomas tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior
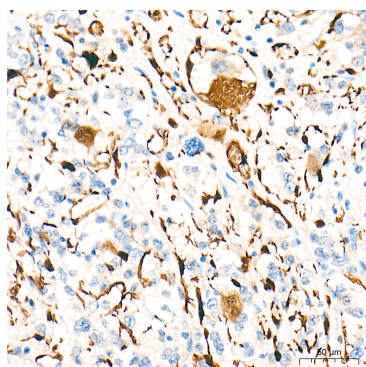

Immunohistochemistry analysis of paraffin-embedded Human melanoma and Human melanoma(blank control) tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed

Immunohistochemistry analysis of paraffin-embedded Human melanoma tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior

Validation Data

to IHC staining.

with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human neuroblastoma tissue using S100B Rabbit mAb (A19108) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.
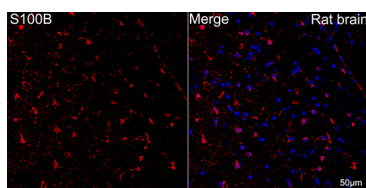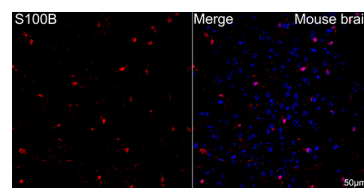

Confocal imaging of paraffin-embedded Rat brain tissue using S100B Rabbit mAb (A19108, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining. Objective: 40x.
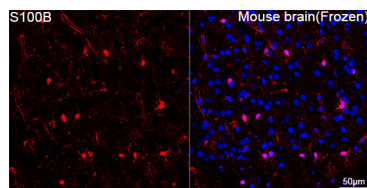

Confocal imaging of paraffin-embedded Mouse brain tissue using S100B Rabbit mAb (A19108, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining. Objective: 40x.
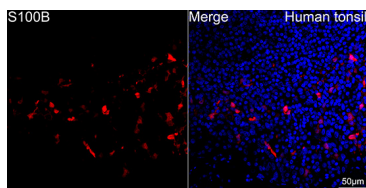

Confocal imaging of frozen sections Mouse brain tissue using S100B Rabbit mAb (A19108, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Human tonsil tissue using S100B Rabbit mAb (A19108, dilution 1:200) followed by a further incubation with Cy3 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.