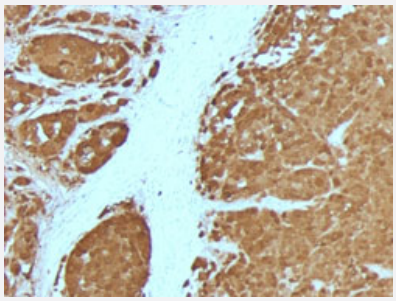
S100B monoclonal antibody, clone 4C4.9 + S100B/1012

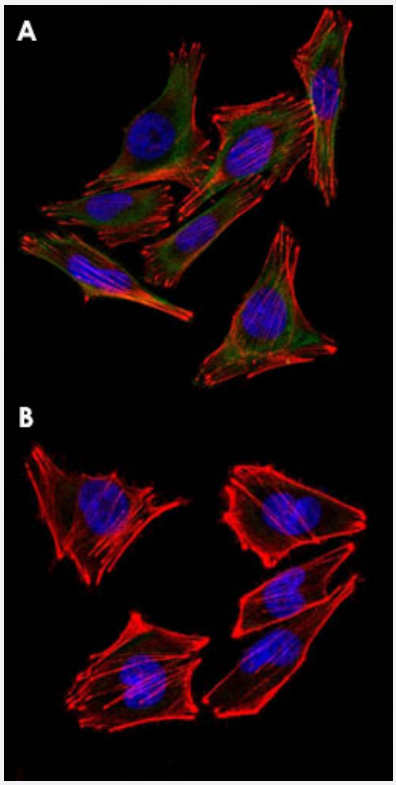
Catalog # MAB14982 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma with S100B monoclonal antibody, clone 4C4.9 + S100B/1012 (Cat # MAB14982).



Immunofluorescence

Immunofluorescent staining of A2058 cells with S100B monoclonal antibody, clone 4C4.9 + S100B/1012 (Cat # MAB14982) (Green). Blue: DAPI was used to stain the cell nuclei. Red: F-actin filaments were labeled with DyLight 554 Phalloidin.

Specification

Product Description	Mouse monoclonal antibody raised against S100B.

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Immunogen	Native purified S100 from bovine brain and recombinant protein corresponding to full length human S 100B.
Host	Mouse
Theoretical MW (kDa)	10-12
Reactivity	Bovine, Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma with S100B monoclonal antibody, clone 4C4.9 + S100B/1012 (Cat # MAB14982).

- Immunofluorescence

  Immunofluorescent staining of A2058 cells with S100B monoclonal antibody, clone 4C4.9 + S100B/1012 (Cat # MAB14982) (Green). Blue: DAPI was used to stain the cell nuclei. Red: F-actin filaments were labeled with DyLight 554 Phalloidin.

- Flow Cytometry

- Western Blot

Gene Info — S100B

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Entrez GeneID	6285
Protein Accession#	P02638;P04271
Gene Name	S100B
Gene Alias	NEF, S100, S100beta
Gene Description	S100 calcium binding protein B
Omim ID	176990
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000174958|S-100 calcium-binding protein, beta chain|S100 beta|S100 calcium binding protein, beta (neural)|S100 calcium-binding protein, beta|S100 calcium-binding protein, beta (neural)

Gene Info — S100B

Entrez GeneID	525716
Protein Accession#	P02638;P04271
Gene Name	S100B
Gene Alias	MGC128275
Gene Description	S100 calcium binding protein B
Gene Ontology	Hyperlink
Gene Summary	beta polypeptide
Other Designations	S100 protein, beta polypeptide

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Publication Reference

- The immunohistochemical localization of S100 in the diagnosis of papillary carcinoma of the thyroid.

  McLaren KM, Cossar DW.

  Human Pathology 1996 Jul; 27(7):633.

  Application: IHC-P, Human, Human papillary carcinoma of the thyroid

- The role of immunocytochemical markers in the differential diagnosis of proliferative and neoplastic lesions of the breast.

  Joshi MG, Lee AK, Pedersen CA, Schnitt S, Camus MG, Hughes KS.

  Modern Pathology 1996 Jan; 9(1):57.

Disease

- Alzheimer disease
- Bipolar Disorder
- Cognition Disorders
- Dementia
- Depressive Disorder
- Diseases in Twins
- Genetic Predisposition to Disease
- Mental Disorders
- Neuropsychological Tests
- Psychotic Disorders
- Schizophrenia

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