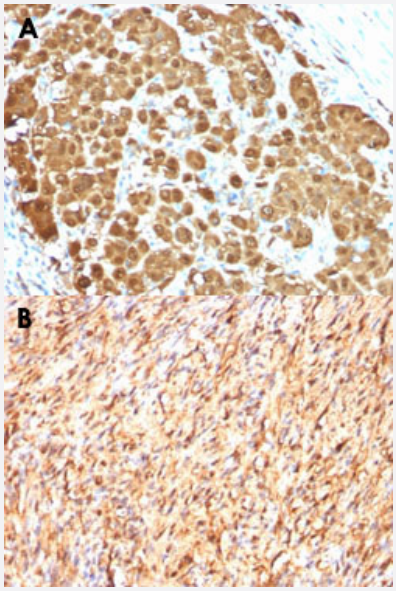
S100B monoclonal antibody, clone S100B/1012

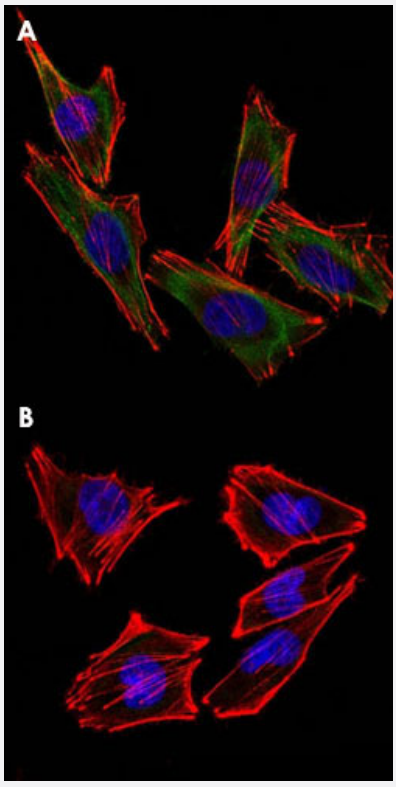
Catalog # MAB14981 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma (A) and human schwannoma (B) with S100B monoclonal antibody, clone S100B/1012 (Cat # MAB14981).



Immunofluorescence

Immunofluorescent staining of A2058 cells with S100B monoclonal antibody, clone S100B/1012 (Cat # MAB14981) (Green). Blue: DAPI was used to stain the cell nuclei. Red: F-actin filaments were labeled with DyLight 554 Phalloidin.

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Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human S100B.
Immunogen	Recombinant protein corresponding to full length human S100B.
Host	Mouse
Theoretical MW (kDa)	10-12
Reactivity	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.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma (A) and human schwannoma (B) with S100B monoclonal antibody, clone S100B/1012 (Cat # MAB14981).

- Immunofluorescence

  Immunofluorescent staining of A2058 cells with S100B monoclonal antibody, clone S100B/1012 (Cat # MAB14981) (Green). Blue: DAPI was used to stain the cell nuclei. Red: F-actin filaments were labeled with DyLight 554 Phalloidin.

- Flow Cytometry

- Western Blot

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Gene Info — S100B

Entrez GeneID	6285
Protein Accession#	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)

Publication Reference

- Calcium-binding proteins of the EF-type.

  Heizmann CW.

  Journal of Cardiovascular Pharmacology 1988 May; 12 Suppl 5:S30.

Disease

- Alzheimer disease

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- 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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