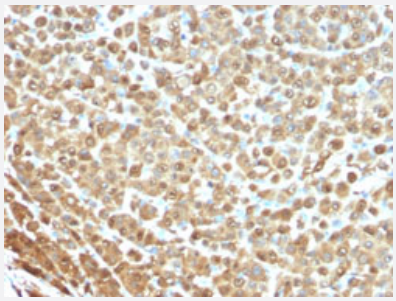
S100A1 monoclonal antibody, clone S1/61

Catalog # MAB14975 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma with S100A1 monoclonal antibody, clone S1/61 (Cat # MAB14975).

Specification

Product Description	Mouse monoclonal antibody raised against native human S100A1.
Immunogen	Native purified human S100 (conjugated with methylated BSA).
Host	Mouse
Theoretical MW (kDa)	10-12
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.

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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 with S100A1 monoclonal antibody, clone S1/61 (Cat # MAB14975).

- Immunofluorescence

Gene Info — S100A1

Entrez GeneID	6271
Protein Accession#	P23297
Gene Name	S100A1
Gene Alias	S100, S100-alpha, S100A
Gene Description	S100 calcium binding protein A1
Omim ID	176940
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. This protein may function in stimulation of Ca2+-induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies. [provided by RefSeq
Other Designations	OTTHUMP00000035100|S100 alpha|S100 calcium-binding protein A1|S100 protein, alpha polypeptide

Publication Reference

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- New sites of human S-100 immunoreactivity detected with monoclonal antibodies.

  Vanstapel MJ, Gatter KC, de Wolf-Peeters C, Mason DY, Desmet VD.

  American Journal of Clinical Pathology 1986 Feb; 85(2):160.

- Production of monoclonal antibodies directed against antigenic determinants common to the alpha- and beta-chain of bovine brain S-100 protein.

  Vanstapel MJ, Peeters B, Cordell J, Heyns W, De Wolf-Peeters C, Desmet V, Mason D.

  Laboratory Investigation 1985 Feb; 52(2):232.

Disease

- Breast cancer
- Breast Neoplasms
- Dermatitis
- DNA Damage
- Genetic Predisposition to Disease

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