

S100 (AB1264) mouse mAb

V0449

Key Features

Host Species

- Mouse

Reactivity

- Human; Mouse; Rat;

Applications

- Immunohistochemistry (IHC)

MW

- 11 kDa (calculated)
- kDa (observed)

Isotype

- IgG2a, kappa

Recommended Dilution Ratios

Application

Immunohistochemistry (IHC)

Dilution

IHC, 1:200-1:400

Storage

Storage Conditions

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

Storage buffer

The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

Basic Information

Clonality Monoclonal

Clone Number AB1264

Immunogen A synthetic peptide corresponding to the amino acid region 2 - 92 of the human S100 protein.

Specificity The antibody can specifically recognize human S100B protein, and has a weak reaction with S100A1, but no cross reaction with S100A4 or S100A6.

Purification Affinity purification Protein A

Concentration Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name S100B

Protein Name S100

Database Link	Organism	Swiss Prot.	Gene ID
	Human	P04271	6285

Background S100 comprises 19 members of Ca²⁺ binding proteins with low molecular weight between 9kDa to 13kDa. The S100 family proteins have been implicated to regulate protein phosphorylation, cell proliferation and differentiation in the Ca²⁺-dependent way. S100B is abundant in glial cells of the central and peripheral nervous system, in melanocytes, chondrocytes, and adipocytes. 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. It is a useful marker for the identification of melanoma and various nervous system tumors.



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