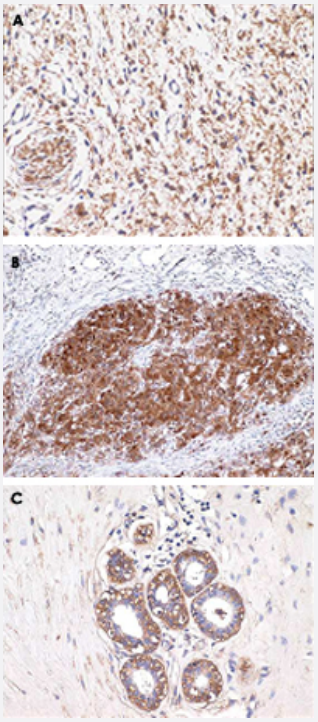
# S100A1 monoclonal antibody, clone D28-E

Catalog # MAB1659 Size 100 uL

## Applications




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

Formalin-fixed and paraffin-embedded human neurofibroma tissue (A; 4 um), skin melanoma tissue (B; 4 um), and human breast tissue (C; 4 um) stained with S100A1 monoclonal antibody, clone D28-E (Cat # MAB1659) show: A - positive immunostaining of tumor cells and peripheral nerve; B - strong positive immunostaining of melanoma cells; C - strong positive immunostaining of the outer myoepithelial cell component in mammary lobule. Kindly performed and provided by Katarina Poliakova, MD and Lubomir Straka, MD, Ph. D., from Clinical Pathology Presov, Ltd., Presov, Slovakia.

## Specification

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| **Product Description** | Rabbit monoclonal antibody raised against synthetic peptide of S100A1. |
| **Immunogen** | A synthetic peptide corresponding to C-terminus of human S100A1. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Isotype** | IgG |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |

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|---|---|
| **Recommend Usage** | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:100-1:200)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 20 mM Tris-HCl, pH 8.0 (20 mg/mL 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

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## Gene Info — S100A1

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|---|---|
| **Entrez GeneID** | 6271 |
| **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-han d calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide ra nge of cells, and involved in the regulation of a number of cellular processes such as cell cycle pro gression and differentiation. S100 genes include at least 13 members which are located as a clus ter 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 RefSe q |
| **Other Designations** | OTTHUMP00000035100\|S100 alpha\|S100 calcium-binding protein A1\|S100 protein, alpha polyp eptide |

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## Disease

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

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