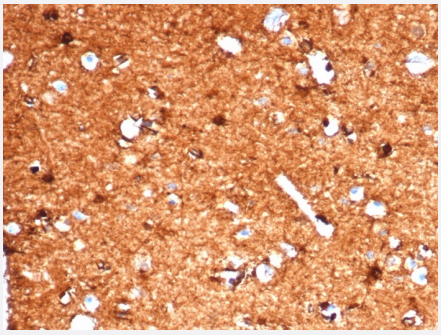
RecomAb™ Sm Size

# S100B recombinant monoclonal antibody, clone S100B/1706R

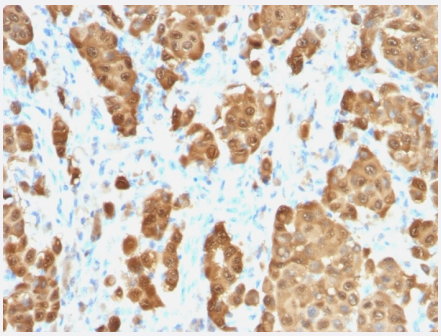
Catalog # RAB08813 Size 20 ug

## Applications



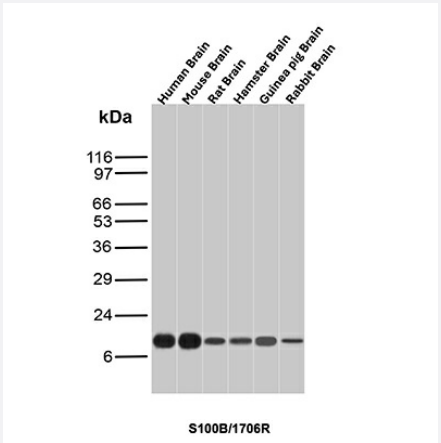
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed, paraffin-embedded human brain stained with S100B recombinant monoclonal antibody, clone S100B/1706R (Cat # RAB08813).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma with S100B recombinant monoclonal antibody, clone S100B/1706R (Cat # RAB08813).




### Western Blot

Western Blot Analysis of Human Brain, Mouse Brain, Rat Brain, Hamster Brain, Guinea pig Brain and Rabbit Brain tissue lysates using S100B recombinant monoclonal antibody, clone S100B/1706R (Cat # RAB08813).

## Specification

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| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human S100B. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human S100B. |
| **Theoretical MW (kDa)** | 45577 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (0.5-1 ug/$10^6$ cells)<br>Immunofluorescence (1-2 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL)<br>Western Blotting (0.5-1 ug/mL)<br>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)

  Formalin-fixed, paraffin-embedded human brain stained with S100B recombinant monoclonal antibody, clone S100B/1706R (Cat # RAB08813).

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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) |

## Disease

- Alzheimer disease
- Bipolar Disorder
- Cognition Disorders
- Dementia
- Depressive Disorder
- Diseases in Twins
- Genetic Predisposition to Disease

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- Mental Disorders
- Neuropsychological Tests
- Psychotic Disorders
- Schizophrenia

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