

## 12-1038: Recombinant Rabbit Monoclonal Antibody to S100A1 (Astrocyte Marker)(Clone : S100A1/1706R)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	S100A1/1706R
<b>Application :</b>	IHC,FACS,WB,IF
<b>Reactivity :</b>	Discontinued
<b>Gene :</b>	S100A1
<b>Gene ID :</b>	6271
<b>Uniprot ID :</b>	P23297
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Bpb, NEF, S100-A1, S100 Alpha Chain, S100 Beta Chain, S100 Calcium Binding Protein A1, S100 Calcium Binding Protein B, S100 Calcium Binding Protein Beta Neural
<b>Isotype :</b>	Rabbit IgG, kappa
<b>Immunogen Information :</b>	Recombinant full-length human S100A1 protein

### Description

The family of EF-hand type Ca<sup>2+</sup>-binding proteins includes calbindin, S-100 alpha and beta, calgranulins, B and C, and the parvalbumin family members, including parvalbumin alpha and parvalbumin beta. The S-100 protein is involved in the regulation of cellular processes such as cell cycle progression and differentiation. S-100 protein may function in the activation of Ca<sup>2+</sup> induced Ca<sup>2+</sup> release, inhibition of microtubule assembly and inhibition of protein kinase C mediated phosphorylation. Two S-100 subunits, sharing 60% sequence identity, have been described as S-100 alpha chain and S-100 beta chain. Three S-100 dimeric forms have been characterized, differing in their subunit composition of two alpha chains, two beta chains or one alpha and one beta chain. S-100 localizes to the cytoplasm and nuclei of astrocytes, Schwann's cells, ependymomas and astroglomas. S-100 is also detected in almost all benign naevi, malignant melanocytic tumours and in Langerhans cells in the skin. Calbindin, S-100 proteins and parvalbumin proteins are each expressed in neural tissues. In addition, S-100 alpha and beta are present in a variety of other tissues and calbindin is present in intestine and kidney.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Purification :</b>	Purified Ab with BSA and Azide at 200ug/ml
<b>Content :</b>	200ug/ml of Ab purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

MW : 10-12kDa; Positive Control : Brain, Melanoma;Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (1-2ug/ml); Western Blotting (0.5-1ug/ml),Immunohistology (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.



Figure 1 : Formalin-fixed, paraffin-embedded human Melanoma stained with S100A1 Recombinant Rabbit Monoclonal Antibody (S100A1/1706R).