

**ARG10440**  
**anti-S100 antibody [8B10]**Package: 100 µg, 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [8B10] recognizes S100
Tested Reactivity	Hu
Tested Application	EIA, ELISA, WB
Host	Mouse
Clonality	Monoclonal
Clone	8B10
Isotype	IgG1
Target Name	S100
Antigen Species	Human
Immunogen	human brain S-100 protein
Conjugation	Un-conjugated
Alternate Names	S-100 protein subunit alpha; S100 calcium-binding protein A1; S-100 protein alpha chain; S100-alpha; S100; Protein S100-A1; S100A

### Application Instructions

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Calculated Mw	11 kDa

### Properties

Form	Liquid
Purification	Protein A affinity purified.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Concentration	1.0-2.0 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links	<a href="#">GeneID: 6271 Human</a> <a href="#">Swiss-port # P23297 Human</a>
Gene Symbol	S100A1
Gene Full Name	S100 calcium binding protein A1
Background	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 Ca <sup>2+</sup> -induced Ca <sup>2+</sup> 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, Jul 2008]
Function	Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity. [UniProt]
Research Area	Controls and Markers antibody; Neuroscience antibody; Signaling Transduction antibody