

## Anti-S100B Antibody (4A182)

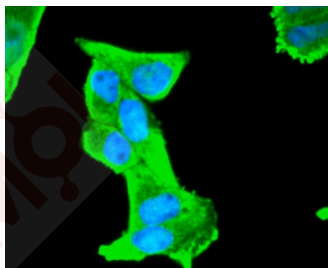
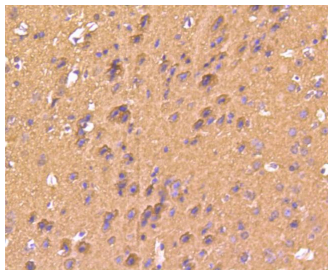
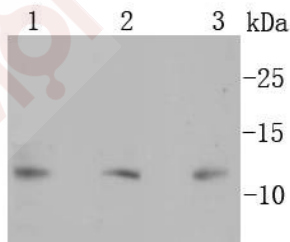
### Product Details

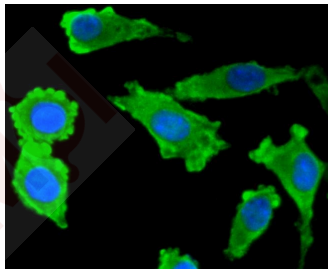
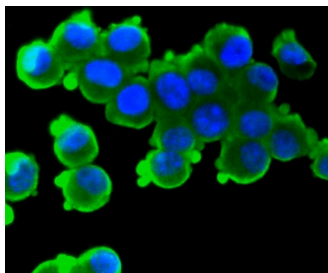
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,Goat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 11 kDa.
Clone:	4A182
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of S100 beta on different lysates using anti-S100 beta antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse liver, Lane 2: Mouse heart, Lane 3: Hela.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-S100 beta antibody. Counter stained with hematoxylin.
3. ICC staining S100 beta in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining S100 beta in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining S100 beta in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P04271

Synonyms: S100beta;S100β;NEF;S100;S100 calcium binding protein B;S100-B

### Research Background

The family of EF-hand type Ca<sup>2+</sup>-binding proteins includes calbindin (previously designated vitamin D-dependent Ca<sup>2+</sup>-binding protein), S-100 α and β, calgranulins A (also designated MRP8), B (also designated MRP14) and C (S-100 like proteins), and the parvalbumin family members, including parvalbumin α and parvalbuminβ(also designated oncomodulin). The S-100 protein is involved in the regulation of cellular processes such as cell cycle progression and differentiation. Research also indicates that the 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 α chain and S-100 β chain. Three S-100 dimeric forms have been characterized, differing in their subunit composition of either two α chains, two β chains or one α and one β 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 α and β are present in a variety of other tissues, and calbindin is present in intestine and kidney.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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