

# **Product datasheet for AP23250PU-N**

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## S100 beta (S100B) (C-term) Rabbit Polyclonal Antibody

**Product data:** 

**Product Type:** Primary Antibodies

Applications: WE

Recommended Dilution:Western blot: 1 μg/ml.Reactivity:Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**Immunogen:** Synthetic peptide corresponding to a sequence at the C-terminal of human S-100β

**Specificity:** This antibody detects S100B at C-term. No cross reactivity with other proteins.

Formulation: 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3

State: Aff - Purified

State: Lyophilized Ig fraction

**Reconstitution Method:** 0.2ml of distilled water will yield a concentration of 500µg/ml.

**Purification:** Immunogen affinity purified

Conjugation: Unconjugated

Storage: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated

freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: S100 calcium binding protein B

Database Link: Entrez Gene 20203 MouseEntrez Gene 25742 RatEntrez Gene 6285 Human

P04271





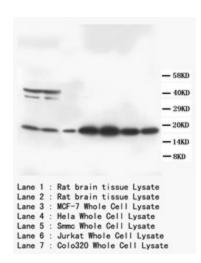
#### Background:

S100 calcium binding protein B or S100 $\beta$  is a protein of the S-100 protein family. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. S100B is a glial-derived protein that is a well-established biomarker for severity of neurological injury and prognosis for recovery. S100 beta is a calcium-binding protein that is expressed at high levels in brain primarily by astrocytes. Addition of the disulfide-bonded dimeric form of S100 beta to primary neuronal and glial cultures and established cell lines induces axonal extension and alterations in astrocyte proliferation and phenotype, but evidence that S100 beta exerts the same effects in vivo has not been presented. Reeves et al. (1994) demonstrated that the same effects of the S100B protein are exerted in vivo. They found that both astrocytosis and neurite proliferation occurred in transgenic mice expressing elevated levels of S100b. They suggested that these transgenic mice represent a useful model for studies of the role of S100B in glial-neuronal interactions in normal development and function of the brain and for analyzing the significance of elevated levels of the protein in Down syndrome and Alzheimer disease.

Synonyms:

Protein S100-B, S100 beta, S100 calcium-binding protein B, S-100 protein subunit beta, S-100 protein beta chain, Astrocyte Marker

### **Product images:**



Polyclonal Anti-S-100β Antibody