



## Mouse monoclonal antibody to Protein S100-beta [SA-12]: IgG

<b>Catalogue No.:</b>	M-991-100
<b>Description:</b>	THIS PRODUCT HAS BEEN SUPERCEDED. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. Protein S100 beta belongs to 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 are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. Among brain cells, S100 beta is often used as a marker for astrocytes. The 2 subunits of S100 protein are the products of separate genes. The beta subunit is present in all S100 positive cells and tumours whereas the alpha subunit is detectable only in specific tissues such as heart, skeletal muscle and brain. The S100 protein is a homodimer composed of two alpha subunits (S100a) or two beta subunits (S100b) or as a heterodimer with one alpha and beta subunit (S100ab or S100ao). This antibody reacts specifically with the beta subunit.
<b>Replaced by:</b>	M-1746-100
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 µg
<b>Antigen:</b>	Bovine kidney S100 beta
<b>Clone:</b>	SA-12
<b>Other Names:</b>	S100B; Calcium binding protein B1;
<b>Accession:</b>	P02638 S100B_BOVIN
<b>Produced in:</b>	Mouse
<b>Purity:</b>	IgG
<b>Applications:</b>	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 2.0 µg/ml is recommended for WB. The predicted length of bovine S100 beta subunit is 92 residues and the MW of the monomer is 11 kDa. A concentration of 1.0-2.0 µg/ml is recommended to detect S100 beta subunit in formalin fixed and paraffin embedded tissues. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
<b>Cross-reactivity:</b>	Human; mouse; rat
<b>Form:</b>	Lyophilized from 1.2% sodium acetate, 2mg BSA, 0.01mg NaN <sub>3</sub>
<b>Reconstitution:</b>	Reconstitute in 1 ml of PBS (pH 7.4) to achieve an antibody concentration of 100 µg/ml. Centrifuge to remove any insoluble material.
<b>Storage:</b>	At least 12 months after purchase at 2 - 4°C (lyophilized formulations). After reconstitution, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase.
<b>References:</b>	Yasuda Y. et al. Relationship between S100beta and GFAP expression in astrocytes during

FOR RESEARCH USE ONLY



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infarction and glial scar formation after mild transient ischemia. Brain Res. 2004 Sep 17;1021(1):20-31.

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