

Code No. 11071

**Anti-S-100 Protein (2A10) Mouse IgG MoAb**Volume : 1 mL (500 µg)

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**Introduction** : S100 proteins (16 members) show a very divergent pattern of cell- and tissue-specific expression, of subcellular localizations and relocations, of post-translational modifications, and of affinities for Ca<sup>2+</sup>, Zn<sup>2+</sup>, and Cu<sup>2+</sup>, consistent with their pleiotropic intra- and extracellular functions. Up to 40 target proteins are reported to interact with S100 proteins and for S100A1 alone 15 target proteins are presently known. Therefore it is not surprising that many functional roles have been proposed and that several human disorders such as cancer, neurodegenerative diseases, cardiomyopathies, inflammations, diabetes, and allergies are associated with an altered expression of S100 proteins.

**Antigen** : Bovine brain S-100 Protein

**Source** : Mouse-Mouse hybridoma  
(X63-Ag8.653 × BALB/c spleen cells)

**Clone** : 2A10

**Subclass** : IgG<sub>1</sub>

**Purification** : Purified with Protein A

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product.

**Stability** : Lyophilized product, 5 years at 2 – 8 °C  
: Solution, 2 years at –20 °C

**Application** : This antibody can be stained in formalin fixed paraffin embedded tissues by several immunohistochemical techniques such as streptavidin-biotin (SAB) method after microwave pretreatment (10 min, 10mM citrate buffer, pH 6.0) . The optimal dilution is about 2 - 5 µg/mL, however, the dilution rate should be optimized by each laboratories.  
: This antibody can be used for western blotting in concentration of about 2 - 5 µg/mL.

**Specificity** : React to β chain of bovine and human S-100 protein

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*For research use only, not for use in diagnostic procedures.*