



## Product Information Sheet

### Monoclonal Anti-S-100 ( $\beta$ -subunit) - Magnetic Bead Conjugate

**Catalogue No.** MA1088-M

**Immunogen**

Bovine brain S-100b.

**Lot No.** 08A12

**Purification**

**Clone:** SA-12

Purified by the goat anti-mouse IgG affinity chromatography.

**Ig type:** mouse IgG1

**Formulation**

**Size:** 200 $\mu$ l

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation (IP)*

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

### BACKGROUND

S100 protein is a 21,000-Da component first isolated from brain by Moore (1965). Immunocytochemical studies demonstrated that S100 protein is produced by a wide variety of normal and neoplastic cells of mesodermal, neuroectodermal, and epithelial origin (Herrera et al., 1988). The S100 molecule is a dimer; thus there are 3 forms of S100: alpha-alpha, known as S-100a(0); alpha-beta, known as S-100a; and beta-beta, known as S-100b. S100 genes are clustered on human chromosome 1q21. S-100 protein expression by primary and metastatic adenocarcinomas.

### REFERENCE

- Engelkamp, D.; Schafer, B. W.; Mattei, M. G.; Erne, P.; Heizmann, C. W. : Six S100 genes are clustered on human chromosome 1q21: identification of two genes coding for the two previously unreported calcium-binding proteins S100D and S100E. Proc. Nat. Acad. Sci. 90: 6547-6551, 1993.
- Herrera, G. A.; Turbat-Herrera, E. A.; Lott, R. L. : S-100 protein expression by primary and metastatic adenocarcinomas. Am. J. Clin. Path. 89: 168-176, 1988.

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