



Product Information Sheet

Monoclonal Anti-S-100 (β-subunit)

Catalogue No. MA1088

Immunogen

Bovine brain S-100b.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: SA-12

Ig type: mouse IgG1

Application

Western blot

Size: 100µg/vial

At 2µg/ml with the appropriate system to detect S-100b in cells and tissues.

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Immunohistochemistry(P)

At 1-2µg/ml to detect S-100b in formalin fixed and paraffin embedded tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Recommended application

Western blot

Immunohistochemistry(P)

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

To reorder contact us at:

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Storage

At -20°C for one year. After reconstitution, at 4°C for three month. It can also be aliquotted and stored frozen at -20°C for longer time.

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

1. 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.
2. 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.