

### **Anti S100 $\beta$ (41-60) (Human, Mouse, Rat) Serum**

Cat. No. YP080 Lot No. 289170418

**Description:** This antiserum was raised in a rabbit by immunization with a keyhole limpet hemocyanin (KLH) protein conjugate of synthetic S100  $\beta$  (41-60) (human, mouse, rat) peptide fragment. The product vial contains 50  $\mu$  L of the titled serum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoreactions such as immunohistochemistry and western blotting with S100  $\beta$  protein (human, mouse, rat).

**Immunogen:** Synthetic S100  $\beta$  (41-60) (human, mouse, rat)-KLH conjugate

**Host:** Rabbit

**Amino Acid Sequence of S100  $\beta$  (41-60) (human, mouse, rat)<sup>1, 2, 3)</sup>:**

41 LSHFLEEIKE OEVVDKVMET 60

**Product Form:** Lyophilized unpurified serum

**Size:** 50  $\mu$ L

**Reconstitution:** Reconstitute the product with 0.5mL of 0.01M PBS (pH7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g.  $\text{NaN}_3$  0.1%).

**Storage:** The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon reconstitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing- thawing should be avoided.

**Suggested Working Dilution Range:** 1:1,000-10,000 for immunohistochemistry. Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on non-competitive EIA): S100  $\beta$  (41-60) (human, mouse, rat) 100%, S100  $\beta$  (bovine) 100%, S100  $\beta$  (16-36) (human, mouse, rat) 0%, S100  $\beta$  (74-92) (human, mouse) < 0.1%.

**Positive Control (immunohistochemistry):** Human and rat duodenum

**Species Tested:** Human, rat

**REFERENCES:**

- 1) R. Jensen, D.R. Marshak et al., Characterization of human brain S100 protein fraction: amino acid sequence of S100 beta, *Journal of Neurochemistry* 45: 700-705, 1985
- 2) H. Jiang, S. Shah and D.C. Hilt. Organization, sequence, and expression of the murine S100 beta gene. Transcriptional regulation by cell type-specific cis-acting regulatory elements. *Journal of Biological Chemistry*. 268:20502-20511, 1993
- 3) R. Kuwano, H. Usui et al., Molecular cloning and the complete sequences of cDNA to mRNA for S-100 protein of rat brain, *Nucleic Acids Research*. 12:7455-7465, 1984

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