



Anti S100 b (41-60) (Human, Mouse, Rat) Serum
Cat. No. YII-YP080-EX Lot No. 289170418

Description: This antiserum was raised in a rabbit by immunization with a keyhole limpet hemocyanin (KLH) protein conjugate of synthetic S100 b (41-60) (human, mouse, rat) peptide fragment. The product vial contains 50 μ 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 b protein (human, mouse, rat).

Immunogen: Synthetic S100 b (41-60) (human, mouse, rat)-KLH conjugate **Host:** Rabbit

Amino Acid Sequence of S100 b (41-60) (human, mouse, rat) ^{1, 2, 3)}:
LSHFLEEIKE QEVVDKVMET

Product Form: Lyophilized unpurified serum **Size:** 50 μ 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. NaN₃ 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 b (41-60) (human, mouse, rat) 100%, S100 b (bovine) 100%, S100 b (16-36) (human, mouse, rat) 0%, S100 b (74-92) (human, mouse) < 0.1%.

Positive Control (immunohistochemistry): Human and mouse brain, 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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