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

Cat. No. YP080 289170418 Lot No.

Description: This antiserum was raised in a rabbit by immunization with a keyhole lympet hemocyanin (KLH) protein conjugate of synthetic S100 β (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 β protein (human, mouse, rat).

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

Amino Acid Sequence of S100 β (41-60) (human, mouse, rat) 1.2,3):

LSHFLEEIKE QEVVDKVMET

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. 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 β (41-60) (human, mouse, rat) 100%, S100 β (bovine) 100%, S100 β (16-36) (human, mouse, rat) 0%, S100 β (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. Orgnization, sequence, and expression of the murine S100 beta gene. Transcriptional regulatoin 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

FOR RESEARCH LABORATORY USE ONLY

DO NOT LISE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

Yanaihora Institute Inc.

2480-1 Awakura, Fujinomiya, Shizuoka, 418-0011 Japan FAX:+81-544-22-2770

TEL: +81-544-22-2771