

PAA596Mu01**Polyclonal Antibody to Superoxide Dismutase, Copper Chaperone (SOD4)****Organism Species: *Mus musculus* (Mouse)*****Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PRODUCT INFORMATION]**Immunogen:** SOD4, Mouse**Clonality:** Polyclonal**Host:** Rabbit**Immunoglobulin Type:** IgG**Purification:** Affinity Chromatography.**Applications:** WB, ICC, IHC-P, IHC-F, ELISA**Concentration:** 200µg/mL**UOM:** 100µg**[IMMUNOGEN INFORMATION]****Immunogen:** Recombinant SOD4 (Ala17~Pro270) expressed in *E.coli*.**Accession No.:** RPA596Mu01**Sequence:** The target protein is fused with two N-terminal Tags, His-tag and T7-tag and its sequence is listed below.

MGSSHHHHHH SGLVPRGSH MASMTGGQQM GRGSEF- AVQM SCQSCVDAVH
KTLKGVAGVQ NVDVQLENQM VLVQTTLPSQ EVQALLESTG RQAVLKGMGS
SQLQNLGAAV AILEGCGSIQ GVVRFLQLSS ELCLIEGTID GLEPGLHGLH VHQYGDLTRD
CNSCGDHFNPDGASHGGPQD TDRHRGDLGN VRAEAGGRAT FRIEDKQLKV WDVIGRSLVI
DEGEDDLGRG GHPLSKITGN SGKRLACGII ARSAGLFQNP KQICSCDGLT IWEERGRPIA
GQGRKDSAQP

[ANTIBODY SPECIFICITY]

The antibody is a rabbit polyclonal antibody raised against SOD4. It has been selected for its ability to recognize SOD4 in immunohistochemical staining and western blotting.

[APPLICATIONS]

Western blotting: 1:100-400

Immunocytochemistry in formalin fixed cells: 1:100-500

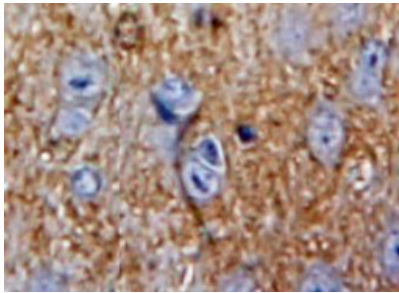
Immunohistochemistry in formalin fixed frozen section: 1:100-500

Immunohistochemistry in paraffin section: 1:50-200

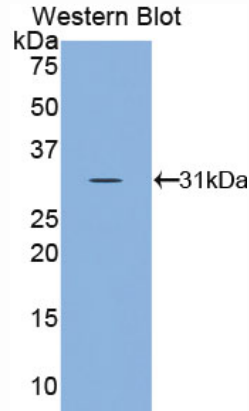
Enzyme-linked Immunosorbent Assay: 1:100-200

Optimal working dilutions must be determined by end user.

[IMAGES]



Used in DAB staining on formalin fixed
paraffin-embedded Brain tissue



Used in Western Blot, Sample:
Recombinant SOD4, Mouse

[CONTENTS]

Form & Buffer: Supplied as solution form in PBS, pH7.4, containing 0.02% NaN₃, 50% glycerol.

[QUALITY CONTROL]

Content: The quality control contains recombinant SOD4 (Ala17~Pro270) disposed in loading buffer.

Usage: 10uL per well when 3,3'-Diaminobenzidine(DAB) as the substrate.
5uL per well when used in enhanced chemiluminescent (ECL).

Note: The quality control is specifically manufactured as the positive control. Not used for other purposes.

Loading Buffer: 100mM Tris(pH8.8), 2% SDS, 200mM NaCl, 50% glycerol, BPB 0.01%, NaN₃ 0.02%.

[STORAGE]

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.