



Product Information Sheet

Polyclonal Anti- Superoxide dismutases, **SOD**

Catalogue No. PA1345

Lot No. 0131012014599

Ig type rabbit IgG

Size 100µg/vial

Specificity

Human, rat, mouse

No cross reactivity with other proteins.

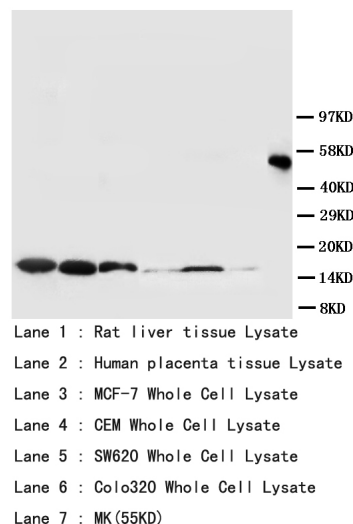
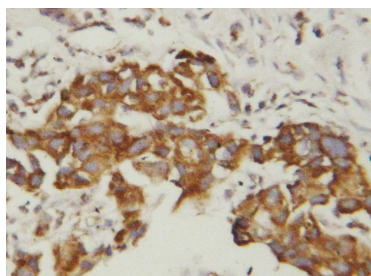
Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry



Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of Human SOD (113-129 aa), different from the mouse sequence by two amino acids.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat, Ms	-	-
IHC-P	1µg/ml	Hu, Rat, Ms	-	By heat
IHC-F	1µg/ml	Rat, Ms	-	-
ICC	1µg/ml	Hu	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

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

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

BACKGROUND

Superoxide dismutases (SOD) are a class of enzymes that catalyze the dismutation of superoxide into oxygen and hydrogen peroxide. As such, they are an important antioxidant defense in nearly all cells exposed to oxygen. One of the exceedingly rare exceptions is *Lactobacillus plantarum* and related lactobacilli, which use a different mechanism. Cu,Zn-SOD was found widely distributed in the cell cytosol and in the cell nucleus, consistent with it being a soluble cytosolic protein. Mitochondria and secretory compartments did not label for this protein. In human cells, peroxisomes showed a labeling density slightly less than that of cytoplasm.¹

REFERENCE

1、Crapo, J. D., Oury, T., Rabouille, C., Slot, J. W., Chang, L.-Y. Copper,zinc superoxide dismutase is primarily a cytosolic protein in human cells. *Proc. Nat. Acad. Sci.* 89: 10405-10409, 1992.