Product Information Sheet

Polyclonal Anti- Superoxide dismutases, *SOD(Magnetic Bead Conjugate)*

Catalogue No. PA1345-M

Lot No. 0131012014599

Ig type rabbit IgG

Size 100μg/vial

Specificity

Human, rat, mouse

No cross reactivity with other proteins.

Recommended application

ImmunoPrecipitation (IP)

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.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3.

Storage

Store at 4˚C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation.

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.

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