

DATASHEET

Version: 2016-08-17

Superoxide Dismutase 1 Antibody, pAb, Rabbit

Cat. No.: A01005-40

Size: 40 µg

Synonyms: Rabbit Anti-Superoxide Dismutase 1 pAb; Rabbit Anti Superoxide dismutase [Cu-Zn] pAb; Rabbit Anti SOD1 pAb;

Description:

Superoxide Dismutase 1 (SwissProt P00441) is a major antioxidant enzyme that catalyzes the conversion of superoxide anion to hydrogen peroxide and molecular oxygen. SOD1 is ubiquitously expressed and is localized in the cytosol, nucleus, and mitochondrial intermembrane space. Defects in SOD1 are the cause of amyotrophic lateral sclerosis type 1 (ALS1).

GenScript **Rabbit Anti-Superoxide Dismutase 1 Polyclonal Antibody** is developed in rabbit using a synthetic peptide of human Superoxide Dismutase 1.

Immunogen: Synthetic peptide (KLH conjugated) of human superoxide dismutase 1

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Predicated Band Size:

18 kD

Observed Band Size:

18 kD

Formulation:

0.5 mg/ml in PBS, pH 7.4, containing 30% glycerol and 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-Superoxide Dismutase 1 Polyclonal Antibody can detect endogenous level of human superoxide dismutase 1. Sequence homology predicts that it will also react with mouse, rat, pig, horse, bovine, bornean orangutan, chimpanzee, and fission yeast superoxide dismutase 1.

Purification: Immunoaffinity chromatography

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.03-1 µg/ml

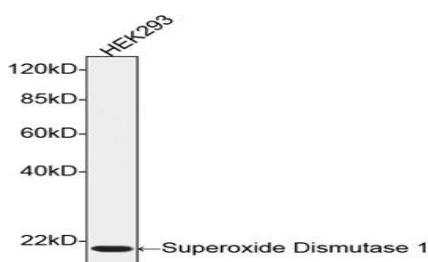
Western blot: 1.0 µg/ml

Other applications: user-optimized

Storage:

The antibody is stable for 2-3 weeks if stored at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example



Western blot analysis of cell lysates using Superoxide Dismutase 1 Antibody, pAb, Rabbit (GenScript, A01005, 1 µg/ml)
The signal was developed with Goat Anti-Rabbit IgG (H&L) [HRP] Polyclonal Antibody (GenScript, A00098) and LumiSensor™ HRP Substrate Kit (GenScript, L00221)
Predicted Size: 18 kD
Observed Size: 18 kD