

Human Superoxide Dismutase 3, Extracellular (SOD3) ELISA Kit | SOD3 elisa kit

Human Superoxide Dismutase 3, Extracellular (SOD3) ELISA Kit

CATALOG #
AAA22903

REACTIVITY
Human

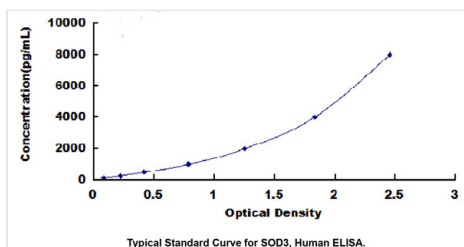
PRODUCT SYNONYMS

Superoxide Dismutase 3; Extracellular (SOD3); Human Superoxide Dismutase 3; Extracellular (SOD3) ELISA Kit; SOD-3; EC-SOD; Extracellular Superoxide Dismutase Cu-Zn; SOD3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SOD3. No significant cross-reactivity or interference between SOD3 and analogues was observed.
Sequence Length	300
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, cell lysates and other biological fluids
Detection Range	125-8,000pg/mL
Sensitivity	< 51pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SOD3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SOD3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SOD3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SOD3. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SOD3, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of SOD3 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SOD3 in human serum, plasma, cell lysates and other biological fluids.
References	Placental superoxide dismutase 3 mediates benefits of maternal exercise on offspring health; Cell Metab; 2021 May 4;33(5):939-956.e8.; PMID: 33770509; Joji Kusuyama; Section on Integrative Physiology and Metabolism, Joslin Diabetes Center, Harvard Medical School, Boston, MA, USA; Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, Miyagi, Japan. Electronic address: joji.kusuyama.c1@tohoku.ac.jp.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119613229
NCBI GeneID	6649
UniProt Accession #	P08294; Q5U781; Q6FHA2
Molecular Weight	25,851 Da
NCBI Official Full Name	superoxide dismutase 3, extracellular
NCBI Official Synonym Full Names	superoxide dismutase 3
NCBI Official Symbol	SOD3
NCBI Official Synonym Symbols	EC-SOD
NCBI Protein Information	extracellular superoxide dismutase [Cu-Zn]
UniProt Protein Name	Extracellular superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD3
UniProt Synonym Gene Names	EC-SOD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/superoxide-dismutase-3-extracellular-sod3/22903>