SORD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SORD, Polyclonal Antibody
Full Product Name	SORD
Product Gene Name	anti-SORD antibody
Product Synonym Names	HEL-S-95n1; SORD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human Predicted: Rat, Mouse
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
Molecular Weight	38KD
Immunogen	Recombinant fragment corresponding to 183-356aa of human SORD.
Cellular Localization	Cell Projection, Cilium, Flagellum, Membrane, Mitochondrion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SORD antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SORD antibody	ELISA: 1:20,000-80,000 WB: 1:200-1,000 IHC: 1:100-500
Related Product Information for anti-SORD antibody	MBS8560890 is an antibody targeting SORD. Reactive in Human Predicted: Rat, Mouse. Host: Rabbit. Sorbitol dehydrogenase
Product References and Citations for anti-SORD antibody	Ferreira FN, Crispim D, Canani LH, et al. Association study of sorbitol dehydrogenase-888G>C polymorphism with type 2 diabetic retinopathy in Caucasian-Brazilians. Exp Eye Res. 115:140-143 (2013)
Other Notes	Small volumes of anti-SORD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SORD. It may not necessarily be applicable to this product.

NCBI GI #	33869416
NCBI GeneID	6652
NCBI Accession #	BC021085
UniProt Related Accession #	Q00796
NCBI Official Full Name	Homo sapiens sorbitol dehydrogenase, mRNA

NCBI Official Synonym Full Names	sorbitol dehydrogenase
NCBI Official Symbol	SORD
NCBI Official Synonym Symbols	RDH; SDH; XDH; SORD1; HEL-S-95n
Protein Family	PTS system sorbose-specific EIID component
NCBI Protein Information	sorbitol dehydrogenase
NCBI Summary for SORD	Sorbitol dehydrogenase (SORD; EC 1.1.1.14) catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase (ALDR1; MIM 103880), makes up the sorbitol pathway that is believed to play an important role in the development of diabetic complications (summarized by Carr and Markham, 1995 [PubMed 8535074]). The first reaction of the pathway (also called the polyol pathway) is the reduction of glucose to sorbitol by ALDR1 with NADPH as the cofactor. SORD then oxidizes the sorbitol to fructose using NAD(+) cofactor.[supplied by OMIM, Jul 2010]
Research Articles on SORD	**1.** SDH gene expression was increased by hypoxia and oxidative stress, but not extracellular hyperosmolarity. Hyperosmolarity and hypoxia did not alter the SDH protein level.
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