MIOX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MIOX, Polyclonal Antibody
Full Product Name	MIOX, NT (MIOX, ALDRL6, KSP32, RSOR, Inositol oxygenase, Aldehyde reductase-like 6, Kidney-specific protein 32, Myo-inositol oxygenase, Renal-specific oxidoreductase) (MaxLight 650)
Product Gene Name	anti-MIOX antibody
Product Synonym Names	MIOX; ALDRL6; KSP32; RSOR; Inositol oxygenase; Aldehyde reductase-like 6; Kidney-specific protein 32; Myo-inositol oxygenase; Renal-specific oxidoreductase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,516 Da
OMIM	606774
3D Structure	ModBase 3D Structure for Q9UGB7
Immunogen	MIOX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MIOX.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-MIOX antibody	Antibodies; Enzymes; Reductase
Applications Tested/Suitable for anti-MIOX antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MIOX antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MIOX antibody	MBS6320885 is an antibody targeting MIOX. Also known as MIOX, NT (MIOX, ALDRL6, KSP32, RSOR, Inositol oxygenase, Aldehyde reductase-like 6, Kidney-specific protein 32, Myo-inositol oxygenase, Renal-specific oxidoreductase) (MaxLight 650). Reactive in Human. Host: Rabbit. The specific function of this protein remains unknown.
Product References and Citations for anti-MIOX antibody	Yang, B., et al. J. Diabetes Complicat. (2009). In press: Prabhu, K.S., et al. J. Biol. Chem. 280(20):19895-19901(2005). Arner, R.J., et al. Biochem. Biophys. Res. Commun. 324(4):1386-1392(2004). Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004): Arner, R.J., et al. Biochem. J. 360 (PT 2), 313-320 (2001).

Other Notes	Small volumes of anti-MIOX 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 MIOX. It may not necessarily be applicable to this product.

NCBI GI #	33667030
NCBI GeneID	55586
NCBI Accession #	NP_060054.4
UniProt Primary Accession #	Q9UGB7
UniProt Secondary Accession #	Q05DJ6; Q5S8C9; Q9BZZ1; Q9UHB8
UniProt Related Accession #	Q9UGB7
GenBank Nucleotide #	NM_017584.5
NCBI Official Full Name	inositol oxygenase
NCBI Official Synonym Full Names	myo-inositol oxygenase
NCBI Official Symbol	MIOX
NCBI Official Synonym Symbols	ALDRL6
UniProt Protein Name	Inositol oxygenase
UniProt Synonym Protein Names	Aldehyde reductase-like 6; Kidney-specific protein 32; Myo-inositol oxygenase; MI oxygenase; Renal-specific oxidoreductase
Protein Family	Inositol oxygenase
UniProt Gene Name	MIOX
UniProt Synonym Gene Names	ALDRL6; KSP32; RSOR; MI oxygenase
UniProt Entry Name	MIOX_HUMAN
NCBI Protein Information	inositol oxygenase
UniProt Comments for MIOX	MIOX: Belongs to the myo-inositol oxygenase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Carbohydrate Metabolism - ascorbate and aldarate; Carbohydrate Metabolism - inositol phosphate; EC 1.13.99.1; Oxidoreductase Chromosomal Location of Human Ortholog: 22q13.3 Cellular Component: cytoplasm; inclusion body Molecular Function: aldo-keto reductase activity; ferric iron binding; inositol oxygenase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen Biological Process: inositol catabolic process
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