I23O2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	I23O2, Polyclonal Antibody
Full Product Name	I23O2, CT (IDO2, INDOL1, Indoleamine 2,3-dioxygenase 2, Indoleamine 2,3-dioxygenase-like protein 1, Indoleamine-pyrrole 2,3-dioxygenase-like protein 1) (MaxLight 650)
Product Gene Name	anti-I23O2 antibody
Product Synonym Gene Name	IDO2
Product Synonym Names	IDO2; INDOL1; Indoleamine 2,3-dioxygenase 2; Indoleamine 2,3-dioxygenase-like protein 1; Indoleamine-pyrrole 2,3-dioxygenase-like protein 1
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	19,610 Da
OMIM	612129
3D Structure	ModBase 3D Structure for Q6ZQW0
Immunogen	I23O2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 274-303 amino acids from the C-terminal region of human I23O2.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-I23O2 antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-I23O2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-I23O2 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-I23O2 antibody	Along with the enzymes encoded by the INDO (MIM 147435) and TDO2 (MIM 191070) genes, the enzyme encoded by the INDOL1 gene metabolizes tryptophan in the kynurenine pathway (Ball et al., 2007 [PubMed 17499941]).
Product References and Citations for anti-I23O2 antibody	Cetindere, T., et al. Cell. Signal. 22(2):197-211(2010). Huttunen, R., et al. Shock 33(2):149-154(2010). Witkiewicz, A.K., et al. J. Am. Coll. Surg. 208(5):781-787(2009). Metz, R., et al. Cancer Res. 67(15):7082-7087(2007). Ball, H.J., et al. Gene 396(1):203-213(2007).

Other Notes	Small volumes of anti-I23O2 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.
Searchable Terms for I23O2 purchase	MBS6309010 is an antibody targeting I23O2. Also known as I23O2, CT (IDO2, INDOL1, Indoleamine 2,3-dioxygenase 2, Indoleamine 2,3-dioxygenase-like protein 1, Indoleamine-pyrrole 2,3-dioxygenase-like protein 1) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for I23O2. It may not necessarily be applicable to this product.

NCBI GI #	148539554
NCBI GeneID	169355
NCBI Accession #	NP_919270.2
UniProt Primary Accession #	Q6ZQW0
UniProt Secondary Accession #	A4UD41; F5H5G0
UniProt Related Accession #	Q6ZQW0
GenBank Nucleotide #	NM_194294.2
NCBI Official Full Name	indoleamine 2,3-dioxygenase 2
NCBI Official Synonym Full Names	indoleamine 2,3-dioxygenase 2
NCBI Official Symbol	IDO2
NCBI Official Synonym Symbols	INDOL1
UniProt Protein Name	Indoleamine 2,3-dioxygenase 2
UniProt Synonym Protein Names	Indoleamine 2,3-dioxygenase-like protein 1; Indoleamine-pyrrole 2,3-dioxygenase-like protein 1
UniProt Gene Name	IDO2
UniProt Synonym Gene Names	INDOL1; IDO-2
UniProt Entry Name	I23O2_HUMAN
NCBI Protein Information	indoleamine 2,3-dioxygenase 2
UniProt Comments for I23O2	INDOL1: Catalyzes the first and rate-limiting step in the kynurenine pathway of tryptophan catabolism. Belongs to the indoleamine 2,3-dioxygenase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - tryptophan; Oxidoreductase; EC 1.13.11.- Chromosomal Location of Human Ortholog: 8p11.21 Cellular Component: cytoplasm; cytosol Molecular Function: metal ion binding; heme binding; indoleamine 2,3-dioxygenase activity; tryptophan 2,3-dioxygenase activity Biological Process: tryptophan catabolic process to kynurenine; tryptophan catabolic process
Research Articles on I23O2	**1.** functional importance of IDO enzymes in human Crohn's disease
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