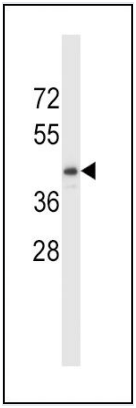
TDO2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TDO2, Polyclonal Antibody
Full Product Name	TDO2, NT (TDO2, TDO, Tryptophan 2,3-dioxygenase, Tryptamin 2,3-dioxygenase, Tryptophan oxygenase, Tryptophan pyrrolase, Tryptophanase)
Product Gene Name	anti-TDO2 antibody
Product Synonym Names	Anti -TDO2, NT (TDO2, TDO, Tryptophan 2,3-dioxygenase, Tryptamin 2,3-dioxygenase, Tryptophan oxygenase, Tryptophan pyrrolase, Tryptophanase)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	47,872 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (156824845..156841558). Location: 4q31-q32
OMIM	191070
3D Structure	ModBase 3D Structure for P48775
Immunogen	TDO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TDO2.
Product Categories/Family for anti-TDO2 antibody	Antibodies; Abs to Enzymes; Oxidase
Applications Tested/Suitable for anti-TDO2 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-TDO2 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-TDO2 antibody	Tryptophan 2,3-dioxygenase (EC 1.13.11.11) plays a role in catalyzing the first and rat-limiting step in the kynurenine pathway, the major pathway of tryptophan metabolism.[supplied by OMIM].
Other Notes	Small volumes of anti-TDO2 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 TDO2 purchase	MBS6000647 is an antibody targeting TDO2. Also known as TDO2, NT (TDO2, TDO, Tryptophan 2,3-dioxygenase, Tryptamin 2,3-dioxygenase, Tryptophan oxygenase, Tryptophan pyrrolase, Tryptophanase). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TDO2 antibody
Western Blot analysis MBS6000647 using MDA-MB453 cell line lysates (35ug/lane). This demonstrates the TDO2 antibody detected the TDO2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TDO2. It may not necessarily be applicable to this product.

NCBI GI #	5032165
NCBI GeneID	6999
NCBI Accession #	NP_005642.1
UniProt Primary Accession #	P48775
UniProt Secondary Accession #	A8K053
UniProt Related Accession #	P48775
GenBank Nucleotide #	NM_005651.3
NCBI Official Full Name	tryptophan 2,3-dioxygenase
NCBI Official Synonym Full Names	tryptophan 2,3-dioxygenase
NCBI Official Symbol	TDO2
NCBI Official Synonym Symbols	TO; TDO; TPH2; TRPO
UniProt Protein Name	Tryptophan 2,3-dioxygenase
UniProt Synonym Protein Names	Tryptamin 2,3-dioxygenase; Tryptophan oxygenase; TO; TRPO; Tryptophan pyrrolase; Tryptophanase
UniProt Gene Name	TDO2
UniProt Synonym Gene Names	TDO; TDO; TO; TRPO
UniProt Entry Name	T23O_HUMAN
NCBI Protein Information	tryptophan 2,3-dioxygenase; tryptophanase; tryptophan oxygenase; tryptophan pyrrolase; tryptamin 2,3-dioxygenase
NCBI Summary for TDO2	This gene encodes a heme enzyme that plays a critical role in tryptophan metabolism by catalyzing the first and rate-limiting step of the kynurenine pathway. Increased activity of the encoded protein and subsequent kynurenine production may also play a role in cancer through the suppression of antitumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism. [provided by RefSeq, Feb 2012]

UniProt Comments for TDO2	TDO2: Incorporates oxygen into the indole moiety of tryptophan. Has a broad specificity towards tryptamine and derivatives including D- and L-tryptophan, 5-hydroxytryptophan and serotonin. Belongs to the tryptophan 2,3-dioxygenase family. Protein type: Amino Acid Metabolism - tryptophan; Oxidoreductase; EC 1.13.11.11 Chromosomal Location of Human Ortholog: 4q31-q32 Cellular Component: cytosol Molecular Function: amino acid binding; metal ion binding; heme binding; oxygen binding; tryptophan 2,3-dioxygenase activity Biological Process: tryptophan catabolic process to acetyl-CoA; tryptophan catabolic process to kynurenine; tryptophan catabolic process
Research Articles on TDO2	**1.** Data suggest that T342 in hTDO has critical role in controlling substrate binding, substrate stereoselectivity, H-bonding interaction between enzyme and intermediates, and regulating the dynamics of protein structure.
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