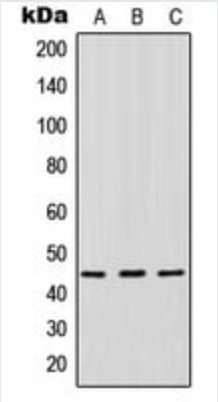
IDO1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IDO1, Polyclonal Antibody
Full Product Name	Anti-IDO1 Antibody
Product Gene Name	anti-IDO1 antibody
Product Synonym Names	IDO; INDO; Indoleamine 2,3-dioxygenase 1; IDO-1; Indoleamine-pyrrole 2,3-dioxygenase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Sheep
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of IDO1 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	IDO1 peptide (MBS822619) is used for blocking the activity of IDO1 antibody (MBS820215)
Molecular Weight	45,326 Da
OMIM	147435
3D Structure	ModBase 3D Structure for P14902
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IDO1. The exact sequence is proprietary.
Applications Tested/Suitable for anti-IDO1 antibody	Western Blot (WB)
Application Notes for anti-IDO1 antibody	WB (1/500 - 1/1000)
Related Product Information for anti-IDO1 antibody	MBS820215 is an antibody targeting IDO1. Reactive in Human, Rat, Sheep. Host: Rabbit. Rabbit polyclonal antibody to IDO1
Other Notes	Small volumes of anti-IDO1 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.



Western Blot (WB) of anti-IDO1 antibody
Western blot analysis of IDO1 expression in HeLa (A), A549 (B), H9C2 (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IDO1. It may not necessarily be applicable to this product.

NCBI GI #	4504577
NCBI GeneID	3620
NCBI Accession #	NP_002155.1
UniProt Primary Accession #	P14902
UniProt Secondary Accession #	Q540B4
UniProt Related Accession #	P14902
GenBank Nucleotide #	NM_002164.5
NCBI Official Full Name	indoleamine 2,3-dioxygenase 1
NCBI Official Synonym Full Names	indoleamine 2,3-dioxygenase 1
NCBI Official Symbol	IDO1
NCBI Official Synonym Symbols	IDO; INDO; IDO-1
UniProt Protein Name	Indoleamine 2,3-dioxygenase 1
UniProt Synonym Protein Names	Indoleamine-pyrrole 2,3-dioxygenase
Protein Family	Indoleamine 2,3-dioxygenase
UniProt Gene Name	IDO1
UniProt Synonym Gene Names	IDO; INDO; IDO-1
UniProt Entry Name	I23O1_HUMAN
NCBI Protein Information	indoleamine 2,3-dioxygenase 1; indole 2,3-dioxygenase; indolamine 2,3 dioxygenase; indoleamine-pyrrole 2,3-dioxygenase
NCBI Summary for IDO1	This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.[provided by RefSeq, Feb 2011]

UniProt Comments for IDO1	INDO: Catalyzes the cleavage of the pyrrol ring of tryptophan and incorporates both atoms of a molecule of oxygen. Belongs to the indoleamine 2,3-dioxygenase family. Protein type: Oxidoreductase; Cell cycle regulation; EC 1.13.11.52; Amino Acid Metabolism - tryptophan Chromosomal Location of Human Ortholog: 8p12-p11 Cellular Component: smooth muscle contractile fiber; stereocilium bundle; cytosol Molecular Function: electron carrier activity; metal ion binding; indoleamine 2,3-dioxygenase activity; heme binding; tryptophan 2,3-dioxygenase activity Biological Process: regulation of activated T cell proliferation; positive regulation of T-helper 2 type immune response; positive regulation of chronic inflammatory response; negative regulation of interleukin-10 production; positive regulation of interleukin-12 production; tryptophan catabolic process to kynurenine; response to lipopolysaccharide; female pregnancy; negative regulation of T cell proliferation; cytokine production during acute inflammatory response; multicellular organismal response to stress; tryptophan catabolic process; positive regulation of T cell tolerance induction
Research Articles on IDO1	**1.** Paradoxical upregulation of IDO expression in colon MNCs and ECs may represent a new predictive factor for prognosis in gut AGVHD after human allogeneic hematopoietic stem cell transplantation.
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