



# I23O1 Polyclonal Antibody

<b>Catalog No</b>	BYab-07849
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	IDO1 IDO INDO
<b>Protein Name</b>	Indoleamine 2,3-dioxygenase 1 (IDO-1) (EC 1.13.11.52) (Indoleamine-pyrrole 2,3-dioxygenase)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	I23O1 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	44kD
<b>Cell Pathway</b>	Cytoplasm, cytosol .
<b>Tissue Specificity</b>	Expressed in mature dendritic cells located in lymphoid organs (including lymph nodes, spleen, tonsils, Peyer's patches, the gut lamina propria, and the thymic medulla), in some epithelial cells of the female genital tract, as well as in endothelial cells of term placenta and in lung parenchyma (PubMed:25691885). Weakly or not expressed in most normal tissues, but mostly inducible in most tissues (PubMed:25691885). Expressed in more than 50% of tumors, either by tumoral, stromal, or endothelial cells (expression in tumor is associated with a worse clinical outcome) (PubMed:18418598). Not overexpressed in tumor-draining lymph nodes (PubMed:26155395, PubMed:25691885).
<b>Function</b>	cytokine production, regulation of cytokine production, negative regulation of cytokine production, positive regulation of cytokine production, response to molecule of bacterial origin, acute inflammatory response, production of molecular mediator of acute inflammatory response, cytokine production during

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acute inflammatory response, regulation of tolerance induction, positive regulation of tolerance induction, regulation of T cell tolerance induction, positive regulation of T cell tolerance induction, regulation of chronic inflammatory response, positive regulation of chronic inflammatory response, negative regulation of immune system process, positive regulation of immune system process, regulation of leukocyte activation, negative regulation of leukocyte activation, regulation of adaptive immune response, positive regulation of adaptive immune response, regulation of adaptive immune re

**Background**

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],

**matters needing attention**

Avoid repeated freezing and thawing!

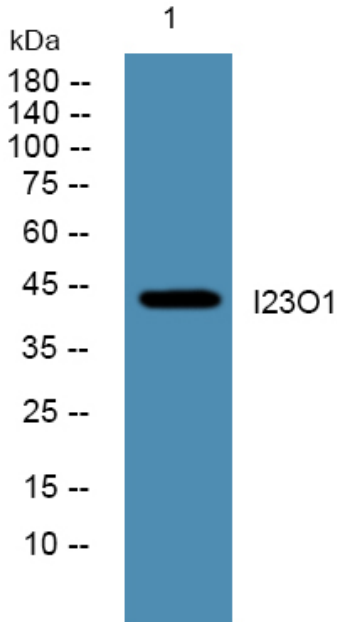
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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## Products Images



Western blot analysis of lysates from K562 cells,  
primary antibody was diluted at 1:1000, 4° over night