



I23O1 Monoclonal Antibody

Catalog No	YP-mAb-07849
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	IDO1 IDO INDO
Protein Name	Indoleamine 2,3-dioxygenase 1 (IDO-1) (EC 1.13.11.52) (Indoleamine-pyrrole 2,3-dioxygenase)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	I23O1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	44kD
Cell Pathway	Cytoplasm, cytosol .
Tissue Specificity	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).
Function	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 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],

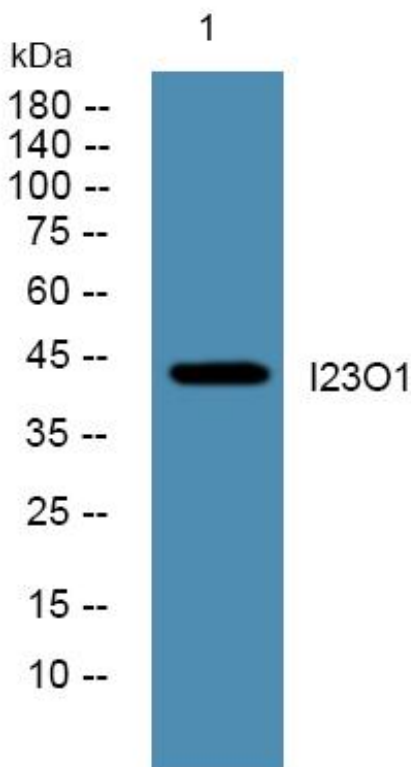
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

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

Products Images



Western Blot analysis of various cells using I23O1 Monoclonal Antibody