Datasheet for ABIN1043819

anti-IDO1 antibody

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Overview

Quantity:	100 µg
Target:	IDO1
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IDO1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	IDO1 antibody was produced in mouse by repeated immunizations with mouse recombinant IDO1 protein followed by hybridoma development. Immunogen Type: RecombinantProtein
Clone:	2E2-6
Isotype:	IgG1
Specificity:	Anti-IDO1 antibody was purified from concentrated tissue culture supernate by Protein G chromatography followed by extensive dialysis against the buffer stated above. IDO1 antibody is specific for mouse IDO1 protein. Mouse IDO1 does not react with human tissues. Cross-reactivity with IDO1 from other sources has not been determined.
Characteristics:	Anti-IDO-1 antibody recognizes indoleamine 2, 3-dioxygenase1 (IDO1) is a 41-42 kD intracellular enzyme that catabolizes tryptophan into kynurenine. IDO1 modulates levels of the amino acid tryptophan, which is vital for cell growth, but is also involved in the suppression of the immune

Product Details

	response. IDO1 effects on immune suppression are due to decreased tryptophan availability and the generation of tryptophan metabolites, resulting in negative effects on T lymphocytes, including proliferation, function and survival. IDO1 may be involved in the suppression of the immune response to tumors, and blocking the IDO1 pathway may be a potential target for immuno and cancer therapy. IDO1 is expressed in a wide variety of tissues and can be upregulated by interferon gamma and other inflammatory cytokines.
Sterility:	Sterile filtered

Target Details

Target:	IDO1
Alternative Name:	IDO1 (IDO1 Products)
Background:	Anti-IDO-1 antibody recognizes indoleamine 2, 3-dioxygenase1 (IDO1) is a 41-42 kD intracellular enzyme that catabolizes tryptophan into kynurenine. IDO1 modulates levels of the amino acid tryptophan, which is vital for cell growth, but is also involved in the suppression of the immune response. IDO1 effects on immune suppression are due to decreased tryptophan availability and the generation of tryptophan metabolites, resulting in negative effects on T lymphocytes, including proliferation, function and survival. IDO1 may be involved in the suppression of the immune response to tumors, and blocking the IDO1 pathway may be a potential target for immuno and cancer therapy. IDO1 is expressed in a wide variety of tissues and can be upregulated by interferon gamma and other inflammatory cytokines. Synonyms: Ido, Indo, Indoleamine 2,3-dioxygenase 1, Indoleamine-pyrrole 2,3-dioxygenase, Ido 1, Ido-1, IDO1 antibody, anti-IDO1 antibody
Gene ID:	15930
NCBI Accession:	NP_032350
UniProt:	P28776
Pathways:	Activated T Cell Proliferation

Application Details

Application Notes:	Anti-IDO1 antibody has been tested for use in ELISA, Western Blot, IF, IHC, and Flow Cytometry. Specific conditions for reactivity should be optimized by the end user.
Comment:	Gene Name: Ido1
Restrictions:	For Research Use only

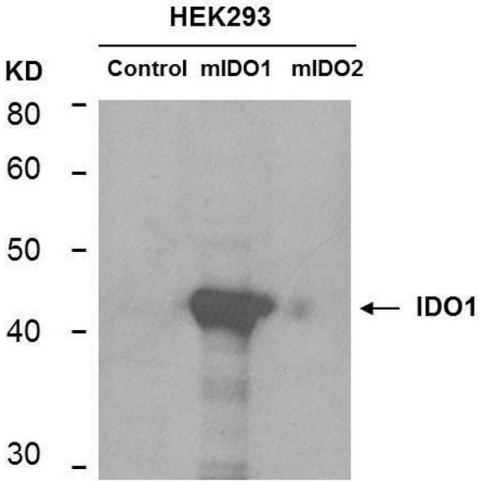
Handling

Format:	Liquid
Concentration:	0.95 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

Publications

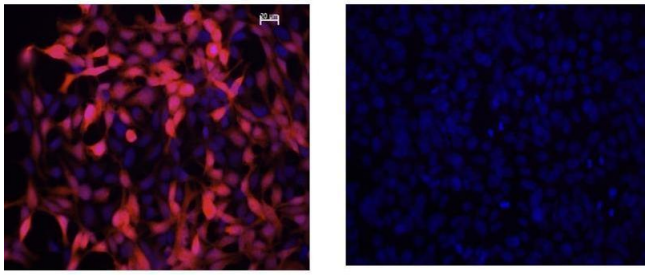
Product cited in:	Baek, Eling: "Changes in gene expression contribute to cancer prevention by COX inhibitors." in: **Progress in lipid research**, Vol. 45, Issue 1, pp. 1-16, (2006) (PubMed).

Images



Western Blotting

Image 1.



Immunofluorescence

Image 2. Immunofluorescence Microscopy of Mouse Anti-IDO1 Antibody. Cells: HEK293 cells. Fixation: 0.5% PFA. Expressing: mouse IDO-1 (left) and mouse IDO-2 (right). Primary antibody: IDO1 (2E2) monoclonal antibody. Antigen retrieval: not required. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1 is located in the cytosol. Staining: IDO1 as red fluorescent signal with bis-benzimide nuclear counterstain (blue).

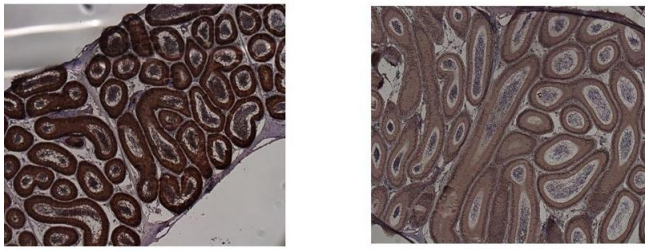


Image 3.

Please check the product details page for more images. Overall 4 images are available for ABIN1043819.