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Datasheet for 210-301-E58

IDO1 Antibody

Overview

Description:	Anti-IDO1 (MOUSE) Monoclonal Antibody - 210-301-E58
Item No.:	210-301-E58
Size:	100 µg
Applications:	ELISA, FC, IF, IHC, Multiplex, WB
Reactivity:	Mouse
Host Species:	Mouse

Product Details

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:	mouse anti-IDO1 antibody, Ido, Indo, Indoleamine 2,3-dioxygenase 1, Indoleamine-pyrrole 2,3-dioxygenase, Ido 1, Ido-1, IDO1 antibody, mouse anti-IDO-1 antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	2E2.6
Format:	IgG1

Target Details

Gene Name:	Ido1
Reactivity:	Mouse
Immunogen Type:	Recombinant Protein

Immunogen:	IDO1 antibody was produced in mouse by repeated immunizations with mouse recombinant IDO1 protein followed by hybridoma development.
Purity/Specificity:	Anti-IDO1 antibody was purified from ascites fluid by Protein A 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.
Relevant Links:	• UniProtKB - P28776 • NCBI - NP_032350.1 • GeneID - 15930

Application Details

Tested Applications:	ELISA, FC, IF, IHC, Multiplex, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000-1:50000
FC:	0.5-1x10^6 cells
IF:	1:50-1:100
IHC:	User Optimized
IP:	10-100 µL
WB:	1:500-1:1500

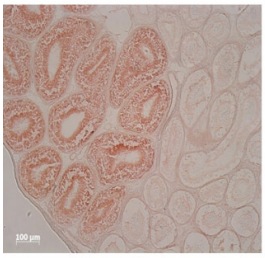
Formulation

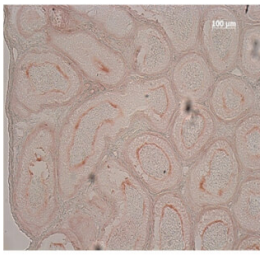
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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:	Expiration date is one (1) year from date of receipt.

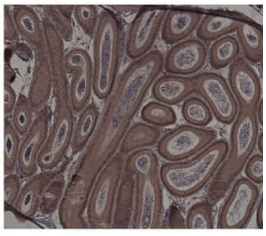
Images



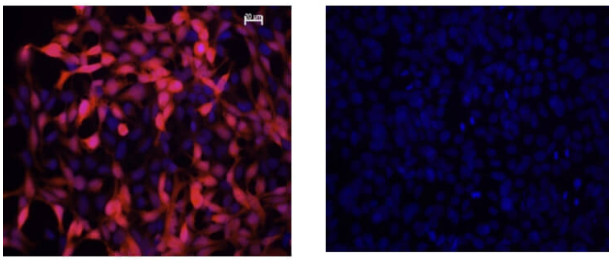


Immunohistochemistry
Immunohistochemistry of Mouse Anti-IDO1 Antibody. Tissue: epididymis from wild-type (left) or IDO1 null mice (right). Fixation: frozen sections. Antigen retrieval: not required. Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1 is located in the cytosol. Staining: IDO 1 as precipitated brown signal.

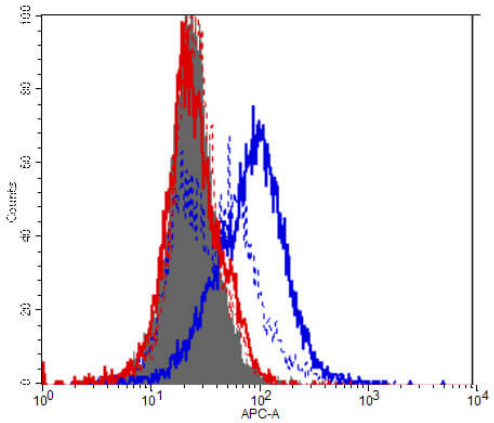




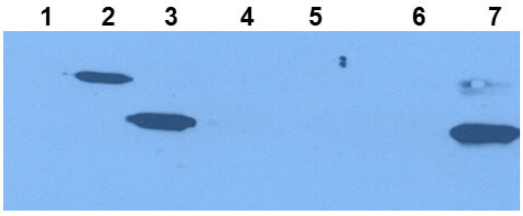
Immunohistochemistry
Immunohistochemistry of Mouse anti-IDO1 antibody. Tissue: epididymis from wild-type (left) or IDO1 null mice (right). Fixation: paraffin-embedded. Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1 is located in the cytosol. Staining: IDO 1 as precipitated brown signal.



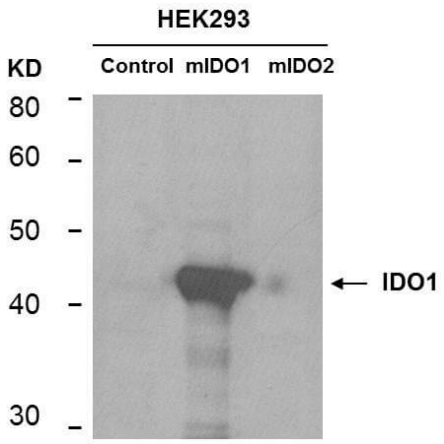
Immunofluorescence Microscopy
Immunofluorescence Microscopy of Mouse Anti-IDO1 Antibody. Cells: HEK293 cells. Fixation: 0.5% PFA. Expressing: mouse IDO-1 (left) and mouse IDO-2 (right). Primary antibody: IDO1 (2E2) monoclonal antibody. Antigen retrieval: not required. Secondary antibody: mouse secondary 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).



Flow Cytometry
Flow Cytometry of Mouse Anti-IDO1 antibody. Cells: HEK293 cells. Expresing: mouse IDO-1(blue) and mouse IDO-2 (red). Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Biotin mouse secondary antibody at 1:10,000 for 45 min at RT and streptavidin PE at 1:5,000 for 30 min at RT.



Western Blot
Western Blot of Mouse Anti-IDO1 Antibody. Extracts from 293HEK Cells expressing: Lane 1: Control Vector. Lane 2: His-tagged mouse IDO1. Lane 3: mouse IDO1. Lane 4: His-tagged mouse IDO2. Lane 5: mouse IDO2. Lane 6: Epididymis from IDO null. Lane 7: wild type mice. Primary antibody: IDO-1(2E2) monoclonal antibody. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 1xPBST overnight at 4°C. Predicted/Observed size: 41-42 kDa/41-42 kDa for IDO-1. Other band(s): none.



Western Blot

Western Blot of mouse anti-IDO1 antibody. Lane 1: HEK293 control vector. Lane 2: HEK293 expressing mouse IDO1. Lane 3: HEK293 expressing mouse IDO2. Load: 35 µg per lane. Primary antibody: IDO 1 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 45.6 kDa, ~44 kDa for IDO1. Other band(s): non-specifics.

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