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Datasheet for 200-301-E57S

IDO1 Antibody

Overview

Description:	Anti-IDO1 (MOUSE) Monoclonal Antibody - 200-301-E57S
Item No.:	200-301-E57S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Mouse

Product Details

Background:	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, Ido1, Ido-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	10.1
Format:	IgG3

Target Details

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

Immunogen:	Anti-IDO1 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with fragment of recombinant human and mouse IDO1 protein followed by hybridoma development.
Purity/Specificity:	Anti-IDO1 was purified from concentrated tissue culture supernate by Protein G chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human and mouse IDO1 protein. A BLAST analysis was used to suggest cross-reactivity with IDO1 from human and mouse sources based on 100% homology with the immunizing sequence. Cross-reactivity with IDO1 from other sources has not been determined.
Relevant Links:	• GeneID - 3620 • NCBI - NP_002155.1 • UniProtKB - P14902

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-IDO1 antibody has been tested in ELISA, IP, and Western Blot. This antibody is suitable for use in 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
IF:	1:50-1:100
IHC:	1:100-1:500
IP:	10-100 µL
WB:	1:500-1:1500

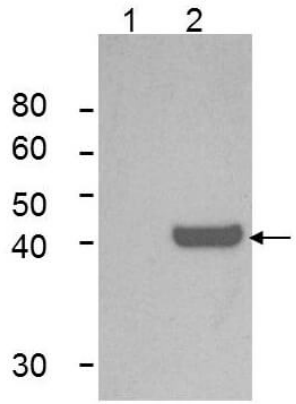
Formulation

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 or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse Anti-IDO1 Antibody. Lane 1: untreated HeLa cells (p/n W09-000-364). Lane 2: IFN-r treated HeLa cells. Load: 35 µg per lane. Primary antibody: IDO 1 Antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO (p/n B501-0500) overnight at 4°C. Predicted/Observed size: 41-42 kDa, 41-42 kDa for IDO-1. Other band(s): none.

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