

**Datasheet for 200-301-E57****IDO1 Antibody****Overview**

<b>Description:</b>	Anti-IDO1 (MOUSE) Monoclonal Antibody - 200-301-E57
<b>Item No.:</b>	200-301-E57
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Human, Mouse
<b>Host Species:</b>	Mouse

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	mouse anti-IDO1 antibody, Ido antibody, Indo, Indoleamine 2,3-dioxygenase 1, Indoleamine-pyrrole 2,3-dioxygenase, Ido1, Ido-1
<b>Host Species:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	10.1
<b>Format:</b>	IgG3

**Target Details**

<b>Gene Name:</b>	Ido1
<b>Reactivity:</b>	Human, Mouse
<b>Immunogen Type:</b>	Recombinant Protein

<b>Immunogen:</b>	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.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P14902</a></li><li>• <a href="#">NCBI - NP_002155.1</a></li><li>• <a href="#">GenelD - 3620</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:5000-1:50000
<b>IF:</b>	1:50-1:100
<b>IHC:</b>	1:100-1:500
<b>IP:</b>	10-100 $\mu$ L
<b>WB:</b>	1:500-1:1500

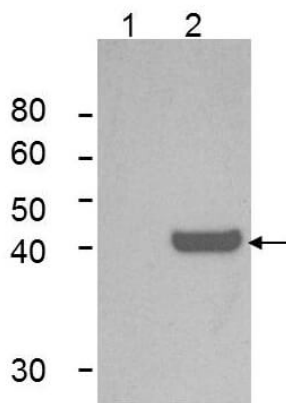
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.09 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	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.

## Disclaimer

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