



Datasheet for ABIN1043733

anti-IDO1 antibody



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Overview

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

Product Details

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. Immunogen Type: RecombinantProtein
Clone:	10-1
Isotype:	IgG3
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.

Product Details

Characteristics: 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.

Sterility: Sterile filtered

Target Details

Target: IDO1

Alternative Name: IDO1 ([IDO1 Products](#))

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: Ido, Indo, Indoleamine 2,3-dioxygenase 1, Indoleamine-pyrrole 2,3-dioxygenase, Ido1, Ido-1

Gene ID: 3620

NCBI Accession: [NP_002155](#)

UniProt: [P14902](#)

Pathways: [Activated T Cell Proliferation](#)

Application Details

Application Notes: Anti-IDO1 antibody has been tested for use in ELISA, Western Blot, IP, IHC, and Flow Cytometry.

Application Details

Specific conditions for reactivity should be optimized by the end user.

Comment: Gene Name: Ido1

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 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.

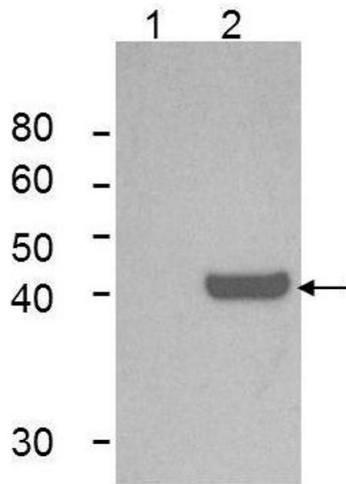
Storage: 4 °C/-20 °C

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: Sarmento, Oneto, Pelicci, Pesce, Scipioni, Faretta, Furia, Dellino, Pelicci, Bianchini, Diaspro, Lanzanò: "Exploiting the tunability of stimulated emission depletion microscopy for super-resolution imaging of nuclear structures." in: **Nature communications**, Vol. 9, Issue 1, pp. 3415, (2018) ([PubMed](#)).



Western Blotting

Image 1. Western Blot of Mouse Anti-IDO1 Antibody. Lane 1: untreated HeLa cells. 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: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 41-42 kDa, 41-42 kDa for IDO-1. Other band(s): none.