Datasheet for ABIN1043733

# anti-IDO1 antibody

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | IDO1 |
| Reactivity: | Human, Mouse |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM) |

## Product Details

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| Purpose: | IDO1 Antibody |
| Immunogen: | 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.<br>Immunogen Type: Recombinant Protein |
| Clone: | 10-1 |
| Isotype: | IgG3 |
| Cross-Reactivity (Details): | This antibody is specific for human and mouse IDO1 protein. |
| Characteristics: | Synonyms: mouse anti-IDO1 antibody, Ido antibody, Indo, Indoleamine 2,3-dioxygenase 1, Indoleamine-pyrrole 2,3-dioxygenase, Ido1, Ido-1 |
| Purification: | Anti-IDO1 was purified from concentrated tissue culture supernate by Protein G chromatography followed by extensive dialysis against the buffer stated above. |

## Product Details

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| Sterility: | Sterile filtered |

## Target Details

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| Target: | IDO1 |
| Alternative Name: | Ido1 (IDO1 Products) |
| Background: | 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. |
| Gene ID: | 3620 |
| NCBI Accession: | NP_002155 |
| UniProt: | P14902 |
| Pathways: | Activated T Cell Proliferation |

## Application Details

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| Application Notes: | Immunohistochemistry Dilution: 1:100-1:500<br>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.<br>Western Blot Dilution: 1:500-1:1500<br>Immunoprecipitation Dilution: 10-100 µL<br>ELISA Dilution: 1:5000-1:50000<br>IF Microscopy Dilution: 1:50-1:100 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |

## Handling

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| Concentration: | 1.0 mg/mL |
| Buffer: | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>Stabilizer: None<br>Preservative: 0.01 % (w/v) Sodium Azide |
| 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 -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. |
| Expiry Date: | 12 months |

## Publications

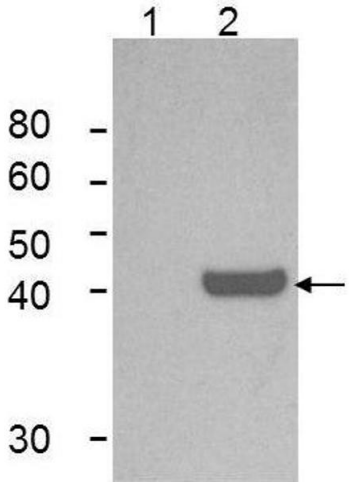
Product cited in:

Meyer, Klatte, Dinh, Harries, Reithmayer, Meyer, Sinclair, Paus: "Evidence that the bulge region is a site of relative immune privilege in human hair follicles." in: **The British journal of dermatology**, Vol. 159, Issue 5, pp. 1077-85, (2009) (PubMed).

Batista, Juhász, Muzik, Kupsky, Barger, Chugani, Mittal, Sood, Chakraborty, Chugani: "Imaging correlates of differential expression of indoleamine 2,3-dioxygenase in human brain tumors." in: **Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging**, Vol. 11, Issue 6, pp. 460-6, (2009) (PubMed).

Zhu, Ji, Wang, Zhang, Liu, Zhang, Matsushima, Cao, Zhang: "Synovial autoreactive T cells in rheumatoid arthritis resist IDO-mediated inhibition." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 177, Issue 11, pp. 8226-33, (2007) (PubMed).

Mellor, Munn: "IDO expression by dendritic cells: tolerance and tryptophan catabolism." in: **Nature reviews. Immunology**, Vol. 4, Issue 10, pp. 762-74, (2004) (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.