

Datasheet for ABIN3043857
anti-IDO1 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	IDO1
Binding Specificity:	AA 37-69, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Indoleamine 2,3-dioxygenase 1(IDO1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human IDO1 (37-69aa NDWMFIAKHL PDLIESGQLRERVEKLNMLSIDH), different from the related mouse sequence by fourteen amino acids, and from the related rat sequence by seventeen amino acids.
Sequence:	NDWMFIAKHL PDLIESGQLR ERVEKLNMLS IDH
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Indoleamine 2,3-dioxygenase 1(IDO1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: indoleamine 2,3-dioxygenase 1

Product Details

Protein Name: Indoleamine 2,3-dioxygenase 1

Purification: Immunogen affinity purified.

Target Details

Target: IDO1

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

Background: IDO1 (INDOLEAMINE 2,3-DIOXYGENASE), INDO or IDO, is an immunomodulatory enzyme produced by some alternatively activated macrophages and other immunoregulatory cells. This enzyme catalyzes the degradation of the essential amino acid L-tryptophan to N-formyl-kynurenine. By fluorescence in situ hybridization, the assignment is narrowed to chromosome 8p12-p11. INDO Interferon-gamma has an antiproliferative effect on many tumor cells and inhibits intracellular pathogens such as Toxoplasma and chlamydia, at least partly because of the induction of indoleamine 2,3-dioxygenase. During inflammation, IDO is upregulated in dendritic cells and phagocytes by proinflammatory stimuli, most notably IFNG, and the enzyme then uses superoxide as a 'cofactor' for oxidative cleavage of the indole ring of tryptophan, yielding an intermediate that deformylates to L-kynurenine.

Synonyms: 3-dioxygenase antibody|23O1_HUMAN antibody|IDO 1 antibody|IDO antibody|IDO-1 antibody|IDO1 antibody|INDO antibody|indolamine 2,3 dioxygenase antibody|Indole 2 3 dioxygenase antibody|indoleamine 2 3 dioxygenase 1 antibody|indoleamine 2 3 dioxygenase antibody| Indoleamine 2,3-dioxygenase 1 antibody|Indoleamine pyrrole 2 3 dioxygenase antibody|Indoleamine-pyrrole 2 antibody

Gene ID: 3620

UniProt: [P14902](#)

Pathways: [Activated T Cell Proliferation](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg 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.

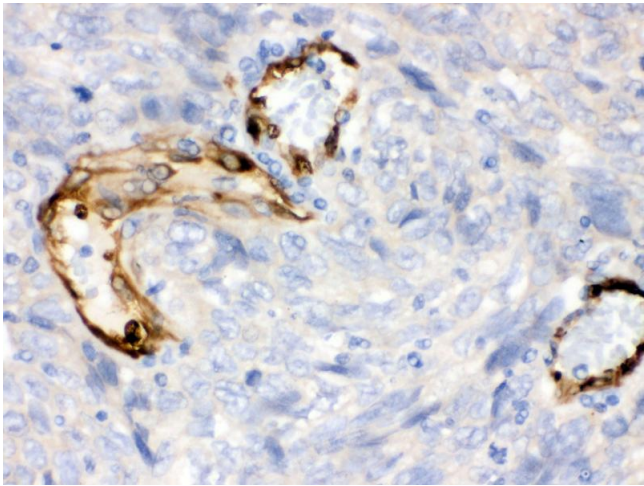
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

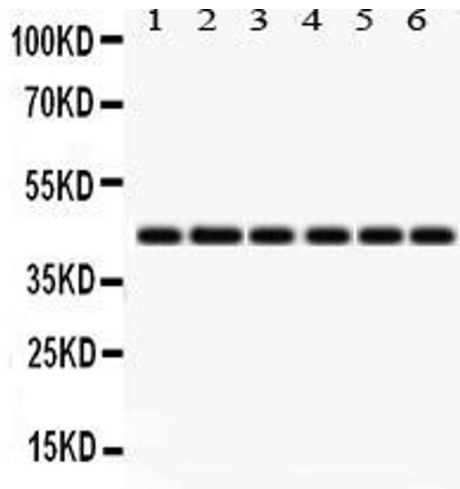
Publications

Product cited in: Li, Xu, Bai, Yang, Zhao, Zhang, Chen, Wang: "Umbilical Cord Tissue-Derived Mesenchymal Stem Cells Induce T Lymphocyte Apoptosis and Cell Cycle Arrest by Expression of Indoleamine 2, 3-Dioxygenase." in: **Stem cells international**, Vol. 2016, pp. 7495135, (2016) ([PubMed](#)).



Immunohistochemistry (Paraffin-embedded Sections)

Image 1.



Western Blotting

Image 2. Anti- IDO1 Picoband antibody, Western blottingAll lanes: Anti IDO1 at 0.5ug/ml Lane 1: Rat Lung Tissue Lysate at 50ug Lane 2: Rat Spleen Tissue Lysate at 50ug Lane 3: Human Placenta Tissue Lysate at 50ug Lane 4: A549 Whole Cell Lysate at 40ug Lane 5: SW620 Whole Cell Lysate at 40ug Lane 6: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 45KD Observed bind size: 45KD