

Rabbit anti-Human IDO Polyclonal Antibody | anti-IDO1 antibody

Anti-IDO Antibody, Rabbit Polyclonal

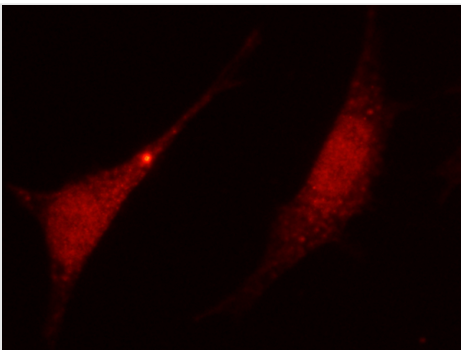
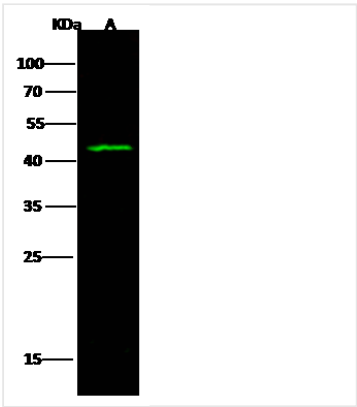
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255449	Rabbit	Human	Immunofluorescence, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

IDO; Polyclonal Antibody; Anti-IDO Antibody; Rabbit Polyclonal; IDO1/Indoleamine 2, 3-dioxygenase Antibody; Rabbit PAb; Antigen Affinity Purified; indoleamine 2, 3-dioxygenase 1; Anti-IDO-1 Antibody; Anti-INDO Antibody; Anti-Indoleamine 2; anti-IDO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human IDO1/Indoleamine 2, 3-dioxygenase
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-IDO1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human IDO1/Indoleamine 2, 3-dioxygenase Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human IDO1/Indoleamine 2, 3-dioxygenase (rh IDO1/Indoleamine 2, 3-dioxygenase). IDO1/Indoleamine 2, 3-dioxygenase specific IgG was purified by Human IDO1/Indoleamine 2, 3-dioxygenase affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IF (Immunofluorescence)
Immunofluorescence staining of IDO1 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human IDO1 polyclonal antibody (1:5000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to cytoplasm and nucleus.

WB (Western Blot)
Anti-IDO1 rabbit polyclonal antibody at 1:500 dilution. Lane A: A431 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti- Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa. Observed band size: 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-IDO1 antibody	Indoleamine 2, 3-dioxygenase-1, also known as Indoleamine-pyrrole 2, 3-dioxygenase, IDO1, and IDO, is a member of the indoleamine 2, 3-dioxygenase family. IDO1/IDO and tryptophan 2, 3-dioxygenase (TDO) are tryptophan-degrading enzymes that catalyze the first step in tryptophan catabolism via the kynurenine pathway. TDO is widely distributed in both eukaryotes and bacteria. In contrast, IDO has been found only in mammals and yeast. In 27, a third enzyme, indoleamine 2, 3-dioxygenase-2 (IDO2), was discovered. IDO2 is found not only in mammals but also in lower vertebrates. IDO1/IDO is an immunosuppressive molecule inducible in various cells. IDO1/IDO catalyzes the cleavage of the pyrrole ring of tryptophan and incorporates both atoms of a molecule of oxygen. It mediates oxidative cleavage of tryptophan, an amino acid essential for cell proliferation and survival. IDO1/IDO inhibition is proposed to have therapeutic potential in immunodeficiency-associated abnormalities, including cancer. The IDO pathway is activated in multiple tumor types. Selective inhibition of IDO1 may represent an attractive cancer therapeutic strategy via up-regulation of cellular immunity. IDO1/IDO is an enzyme that suppresses adaptive T-cell immunity by catabolizing tryptophan from the cellular microenvironment. Inhibition of IDO pathway might enhance the efficacy of immunotherapeutic strategies for cancer.
Product Categories/Family for anti-IDO1 antibody	Cancer Drug Targets
References	Barnes NA. et al., 2009, J Immunol. 183 (9): 5768-77. Yuasa HJ. et al., 2009, Comp Biochem Physiol B Biochem Mol Biol. 153 (2): 137-44. L b S. et al., 2009, Cancer Immunol Immunother. 58 (1): 153-7. Liu, X. et al., 2010, Blood. 115 (17): 3520-30. Sun, T. et al., 2010, Mol Cell Biochem. 342 (1-2): 29-34. Kiank C. et al., 2010, PLoS One. 5 (7): e11825.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504577
NCBI GeneID	3620
NCBI Accession #	NP_002155.1
NCBI GenBank Nucleotide #	NM_002164.5
UniProt Accession #	P14902; Q540B4; E5RGR8; F6M9T7
Molecular Weight	45,326 Da
NCBI Official Full Name	indoleamine 2,3-dioxygenase 1
NCBI Official Synonym Full Names	indoleamine 2,3-dioxygenase 1
NCBI Official Symbol	IDO1

NCBI Official Synonym Symbols	IDO; INDO; IDO-1
NCBI Protein Information	indoleamine 2,3-dioxygenase 1
UniProt Protein Name	Indoleamine 2,3-dioxygenase 1
UniProt Gene Name	IDO1
UniProt Synonym Gene Names	IDO; INDO; IDO-1
UniProt Entry Name	I23O1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ido-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/255449>