

## Rabbit Indoleamine 2, 3-dioxygenase Polyclonal Antibody | anti-IDO1 antibody

Anti-Indoleamine 2, 3-dioxygenase antibody

|                              |                       |                                         |                                     |
|------------------------------|-----------------------|-----------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA44953</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Reacts with: Human</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|-----------------------|-----------------------------------------|-------------------------------------|

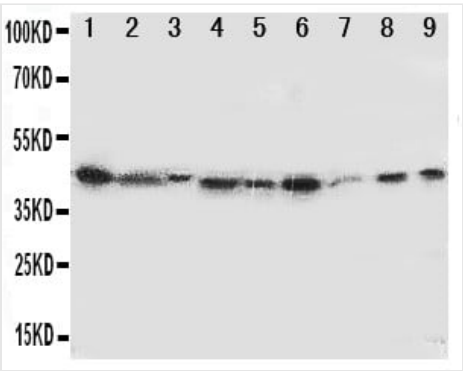
### PRODUCT SYNONYMS

Indoleamine 2; 3-dioxygenase; Polyclonal Antibody; Anti-Indoleamine 2; 3-dioxygenase antibody; 3-dioxygenase 1(IDO-1); indoleamine 2; 3-dioxygenase 1; I23O1\_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; 3-dioxygenase 1 antibody; Indoleamine pyrrole 2 3 dioxygenase antibody; Indoleamine-pyrrole 2 antibody; anti-IDO1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                               |
| Reactivity                                     | Reacts with: Human                                                                                                                                                                                   |
| Clonality                                      | Polyclonal                                                                                                                                                                                           |
| Isotype                                        | IgG                                                                                                                                                                                                  |
| Specificity                                    | No cross reactivity with other proteins                                                                                                                                                              |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                    | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                | 403                                                                                                                                                                                                  |
| Applicable Applications for anti-IDO1 antibody | WB (Western Blot)                                                                                                                                                                                    |
| Immunogen                                      | A synthetic peptide corresponding to a sequence at the N-terminus of human IDO1(1-20aa MAHAMENSWTISKEYHIDEE).                                                                                        |
| Contents                                       | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                               |
| Reconstitution                                 | 0.2ml of distilled water will yield a concentration of 500ug/ml                                                                                                                                      |
| Buffer Solution                                | Phosphate buffered saline                                                                                                                                                                            |
| Preparation and Storage                        | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

IMAGES



**WB (Western Blot)**  
Anti-IDO1 antibody, AAA44953, Western blottingAll lanes: Anti IDO1 (AAA44953) at 0.5ug/mlLane 1: SMMC Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: Human Placenta Tissue Lysate at 50ugLane 4: SW620 Whole Cell Lysate at 40ugLane 5: U87 Whole Cell Lysate at 40ugLane 6: 293T Whole Cell Lysate at 40ugLane 7: A431 Whole Cell Lysate at 40ugLane 8: HELA Whole Cell Lysate at 40ugLane 9: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 45KDObserved bind size: 45KD

ADDITIONAL INFORMATION

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| <b>Related Product Information for anti-IDO1 antibody</b> | <p><b>Description:</b> Rabbit IgG polyclonal antibody for Indoleamine 2,3-dioxygenase 1(IDO1) detection. Tested with WB in Human.</p> <p><b>Background:</b> 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 123948                                                                                                                 |
| NCBI GeneID                      | 3620                                                                                                                   |
| UniProt Accession #              | P14902; Q540B4                                                                                                         |
| 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; indole 2,3-dioxygenase; indolamine 2,3 dioxygenase; indoleamine-pyrrole 2,3-dioxygenase |
| 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://stage.aaabiotech.com/polyclonal/indoleamine-2-3-dioxygenase-antibody-western-blot-elisa/44953>