

## Rabbit IDO-2/IDO2 Polyclonal Antibody | anti-IDO2 antibody

Anti-IDO-2/IDO2 Antibody

| CATALOG # | HOST   | REACTIVITY                | APPLICATIONS                                                                |
|-----------|--------|---------------------------|-----------------------------------------------------------------------------|
| AAA125767 | Rabbit | Human, Mouse, Rat, Monkey | ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot |

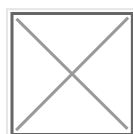
### PRODUCT SYNONYMS

IDO-2/IDO2; Polyclonal Antibody; Anti-IDO-2/IDO2 Antibody; IDO2; INDOL1; Indoleamine 2; 3-dioxygenase 2; IDO-2; EC 1. 13. 11. -; 3-dioxygenase-like protein 1; Indoleamine-pyrrole 2; indoleamine 2; anti-IDO2 antibody

### PRODUCT SPECIFICATIONS

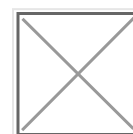
|                                                |                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                     |
| Reactivity                                     | Human, Mouse, Rat, Monkey                                                                                                                                                                                  |
| Clonality                                      | Polyclonal                                                                                                                                                                                                 |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                 |
| Specificity                                    | Rabbit IgG polyclonal antibody for IDO-2/IDO2 detection.                                                                                                                                                   |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                               |
| Form/Format                                    | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.                                                                                                                               |
| Applicable Applications for anti-IDO2 antibody | ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                             |
| Immunogen                                      | E Coli-derived human IDO-2/IDO2 recombinant protein (Position: M1-R357).                                                                                                                                   |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Recommended Detection Systems                  | Recommended Detection Systems                                                                                                                                                                              |
| Preparation and Storage                        | Store 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



#### FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of K562 cells using anti-IDO-2/IDO2 antibody (AAA125767). Overlay histogram showing K562 cells stained with AAA125767 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IDO-2/IDO2 Antibody (AAA125767, 1&mu;g/1x106 cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-rabbit IgG (5-10&mu;g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1&mu;g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



#### WB (Western Blot)

Figure 1. Western blot analysis of IDO-2/IDO2 using anti-IDO-2/IDO2 antibody (AAA125767). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: rat liver tissue lysates. Lane 2: mouse liver tissue lysates. Lane 3: monkey kidney tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-IDO-2/IDO2 antigen affinity purified polyclonal antibody (Catalog # AAA125767) at 0. 5 &mu;g/mL overnight at 4 degree C, then washed with TBS-0. 1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IDO-2/IDO2 at approximately 45KD. The expected band size for IDO-2/IDO2 is at 45KD.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-IDO2 antibody | IDO2(Indoleamine 2,3-dioxygenase 2), also called INDOLEAMINE 2,3-DIOXYGENASE-LIKE 1 or INDOL1, is an enzyme encoded by the INDOL1 gene which metabolizes tryptophan in the kynurenine pathway. By genomic sequence analysis, the INDOL1 gene is mapped on chromosome 8p12 just downstream of the INDO gene. And its exact cytogenetic location is 8p11. 21. By database analysis using INDO as probe, followed by RT-PCR of total RNA from various tissues, IDO2 is cloned by human and mouse INDOL1. INDOL1 catabolizes tryptophan as determined by Kyn production, but unlike INDO, is inhibited by D-1-methyl-tryptophan(D-1MT) but not the L-1MT stereoisomer. The Gene Structure of the INDOL1 has 11 exons and spans 74 kb. |
| References                                         | 1. Ball, H. J., Sanchez-Perez, A., Weiser, S., Austin, C. J. D., Astelbauer, F., Miu, J., McQuillan, J. A., Stocker, R., Jermin, L. S., Hunt, N. H. Characterization of an indoleamine 2,3-dioxygenase-like protein found in humans and mice. Gene 396: 203-213, 2007.<br>2. Metz, R., DuHadaway, J. B., Kamasani, U., Laury-Kleintop, L., Muller, A. J., Prendergast, G. C. Novel tryptophan catabolic enzyme IDO2 is the preferred biochemical target of the antitumor indoleamine 2,3-dioxygenase inhibitory compound D-1-methyl-tryptophan. Cancer Res. 67: 7082-7087, 2007.                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 215274147                                                                                                                                                                                                                    |
| NCBI GeneID                      | 169355                                                                                                                                                                                                                       |
| UniProt Accession #              | Q6ZQW0; A4UD41                                                                                                                                                                                                               |
| Molecular Weight                 | 19,610 Da                                                                                                                                                                                                                    |
| NCBI Official Full Name          | Indoleamine 2,3-dioxygenase 2                                                                                                                                                                                                |
| NCBI Official Synonym Full Names | indoleamine 2,3-dioxygenase 2                                                                                                                                                                                                |
| NCBI Official Symbol             | IDO2                                                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | INDOL1                                                                                                                                                                                                                       |
| NCBI Protein Information         | indoleamine 2,3-dioxygenase 2; IDO-2; indoleamine 2,3-dioxygenase-like 1 protein; indoleamine 2,3-dioxygenase-like protein 1; indoleamine-pyrrole 2,3 dioxygenase-like 1; indoleamine-pyrrole 2,3-dioxygenase-like protein 1 |
| UniProt Protein Name             | Indoleamine 2,3-dioxygenase 2                                                                                                                                                                                                |
| UniProt Gene Name                | IDO2                                                                                                                                                                                                                         |
| UniProt Synonym Gene Names       | INDOL1; IDO-2                                                                                                                                                                                                                |
| UniProt Entry Name               | I23O2_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/ido-2-ido2-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125767>