# Anti-IDO2 Antibody

**Catalog Number: *A06002-2***

BOSTER®
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-IDO2 Antibody |
| **Gene Name** | IDO2 |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat, monkey |
| **Tested Application** | WB, IHC, FCM, ELISA |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. |
| **Immunogen** | E. coli-derived human IDO-2/IDO2 recombinant protein (Position: M1-R357). Human IDO2 shares 75.6% and 77.3% amino acid (aa) sequence identity with mouse and rat IDO2, respectively. |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 45 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>Flow Cytometry (Fixed): 1:50-200<br>Enzyme linked immunosorbent assay (ELISA): 1:100-1000<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied.

## Background Information

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

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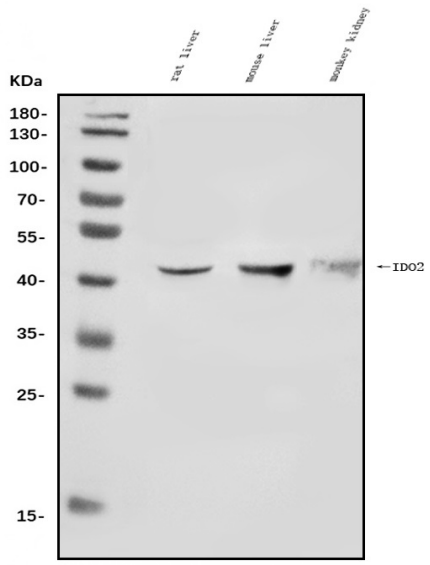
unlike INDO, is inhibited by D-1-methyl-tryptophan(D-1MT) but not the L-1MT stereoisomer. The Gene Structure of the INDOL1 has 11 exons and spans 74 kb.

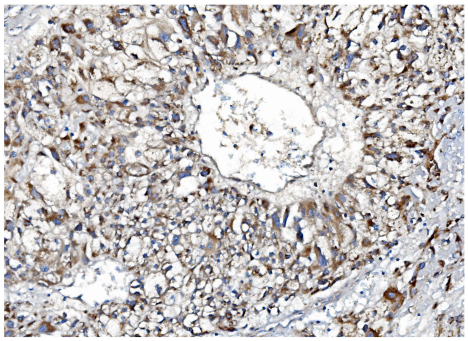
## Reference

Anti-IDO2 Antibody被引用在1文献中。

## Selected Validation Data




Western blot analysis of IDO2 using anti-IDO2 antibody (A06002-2). The sample well of each lane was loaded with 30 ug 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 membrane. Then the membrane was incubated with rabbit anti-IDO2 antigen affinity purified polyclonal antibody (A06002-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for IDO2 at approximately 45 kDa. The expected band size for IDO2 is at 45 kDa.



IHC analysis of IDO2 using anti-IDO2 antibody (A06002-2).
IDO2 was detected in a paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-IDO2 Antibody (A06002-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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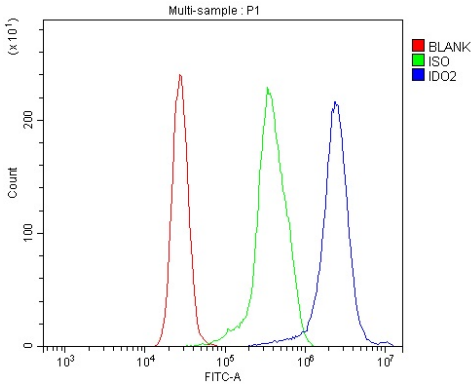


Flow Cytometry analysis of K562 cells using anti-IDO2 antibody (A06002-2).

Overlay histogram showing K562 cells stained with A06002-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IDO2 Antibody (A06002-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.