

Datasheet for ABIN7599307  
**anti-IDO2 antibody (AA 1-357)**



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## Overview

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| Quantity:            | 100 µg                                                                          |
| Target:              | IDO2                                                                            |
| Binding Specificity: | AA 1-357                                                                        |
| Reactivity:          | Human, Mouse, Rat, Monkey                                                       |
| Host:                | Rabbit                                                                          |
| Clonality:           | Polyclonal                                                                      |
| Conjugate:           | This IDO2 antibody is un-conjugated                                             |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS) |

## Product Details

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| Purpose:                    | Anti-IDO-2/IDO2 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen:                  | E.coli-derived human IDO-2/IDO2 recombinant protein (Position: M1-R357).                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                                                        |
| Characteristics:            | Anti-IDO-2/IDO2 Antibody Picoband® (ABIN7599307). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Target Details

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| Target:           | IDO2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Alternative Name: | IDO2 ( <a href="#">IDO2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Background:       | <p>Synonyms: Tricarboxylate transport protein, mitochondrial, Citrate transport protein, CTP, Solute carrier family 25 member 1, Tricarboxylate carrier protein, SLC25A1, SLC20A3</p> <p>Tissue Specificity: Detected in brain. Detected at very much lower levels in heart, lung, placenta and skeletal muscle. Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia.</p> <p>Background: 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.</p> |
| Molecular Weight: | 45 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene ID:          | 16935                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Mouse, Rat, Monkey</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>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. <i>Gene</i> 396: 203-213, 2007. 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. <i>Cancer Res.</i> 67: 7082-7087, 2007.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Handling

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| 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 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                             |
| Storage:         | 4 °C, -20 °C                                                                                                                                                                                             |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |