

Anti-INDOL1 Antibody
Catalog # ABO10926**Specification**

Anti-INDOL1 Antibody - Product Information

Application	WB
Primary Accession	Q6ZQW0
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Indoleamine 2,3-dioxygenase 2(IDO2) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-INDOL1 Antibody - Additional Information

Gene ID 169355

Other Names

Indoleamine 2, 3-dioxygenase 2, IDO-2, 1.13.11.-, Indoleamine 2, 3-dioxygenase-like protein 1, Indoleamine-pyrrole 2, 3-dioxygenase-like protein 1, IDO2, INDOL1

Calculated MW

45424 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Tissue Specificity

Detected in liver, small intestine, spleen, placenta, thymus, lung, brain, kidney, and colon. .

Protein Name

ndoleamine 2,3-dioxygenase 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human INDOL1(1-20aa MLHFHYDTSNKIMEPHRPN).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the indoleamine 2,3-dioxygenase family.

Anti-INDOL1 Antibody - Protein Information

Name IDO2 ([HGNC:27269](#))

Function

Catalyzes the first and rate limiting step of the catabolism of the essential amino acid tryptophan along the kynurenine pathway (PubMed:17671174). Involved in immune regulation. May not play a significant role in tryptophan-related tumoral resistance (PubMed:25691885).

Tissue Location

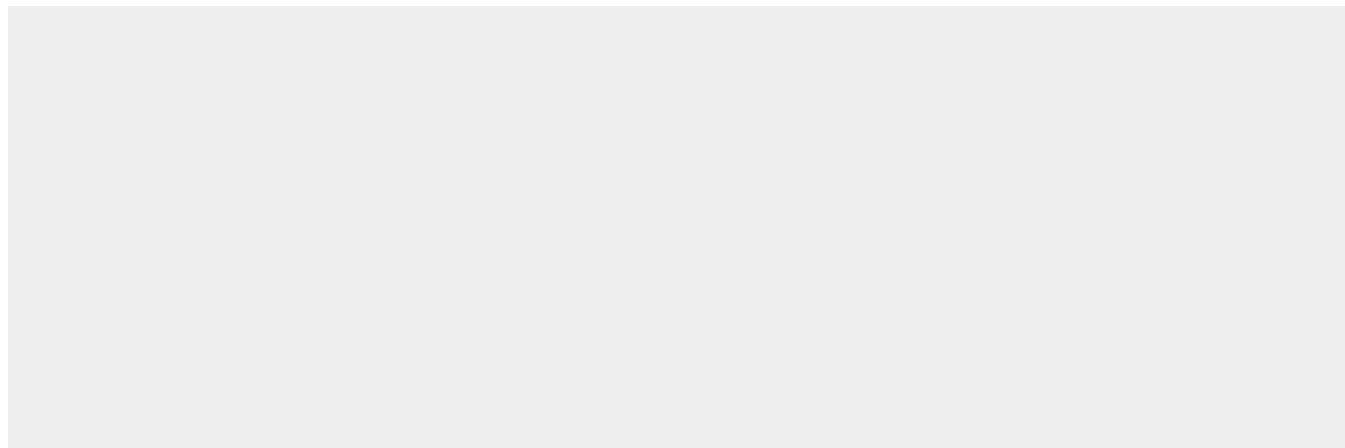
Detected in liver, small intestine, spleen, placenta, thymus, lung, brain, kidney, and colon (PubMed:17671174) Also expressed at low level in testis and thyroid. Not expressed in the majority of human tumor samples (>99%) (PubMed:25691885)

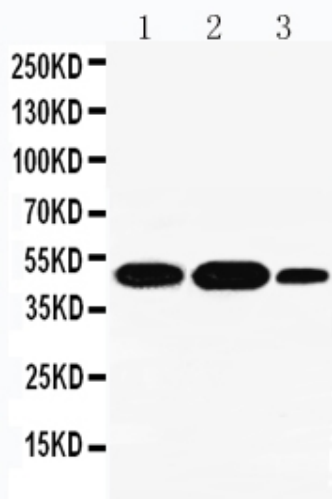
Anti-INDOL1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-INDOL1 Antibody - Images





Anti-INDOL1 antibody, ABO10926, Western blotting
Lane 1: A549 Cell Lysate
Lane 2: Human Placenta Tissue Lysate
Lane 3: A431 Cell Lysate

Anti-INDOL1 Antibody - 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.