

Anti-INDOL1 Antibody

Catalog # ABO10926

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.

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
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. .
Source	Eukaryota
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.

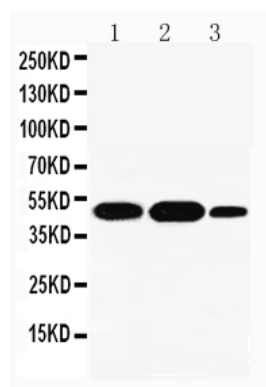
Protein Information

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)

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.