

Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody

Catalog Number: PA1611

About IDO1

IDO1 (INDOLEAMINE 2,3-DIOXYGENASE), INDO or IDO, is an immunomodulatory enzyme produced by some alternatively activated macrophages and other immunoregulatory cells. This enzyme catalyzes the degradation of the essential amino acid L-tryptophan to N-formyl-kynurenine. By fluorescence in situ hybridization, the assignment is narrowed to chromosome 8p12-p11. INDO Interferon-gamma has an antiproliferative effect on many tumor cells and inhibits intracellular pathogens such as Toxoplasma and chlamydia, at least partly because of the induction of indoleamine 2,3-dioxygenase. During inflammation, IDO is upregulated in dendritic cells and phagocytes by proinflammatory stimuli, most notably IFNG, and the enzyme then uses superoxide as a 'cofactor' for oxidative cleavage of the indole ring of tryptophan, yielding an intermediate that deformylates to L-kynurenine.

Overview

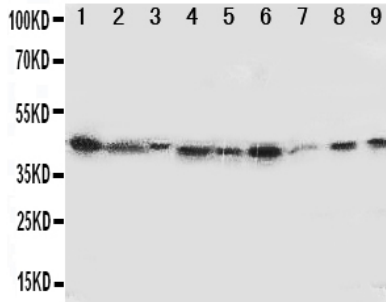
Product Name	Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody catalog # PA1611. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P14902

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human IDO1.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody (PA1611) Images



Anti-IDO1 antibody, PA1611, Western blotting
All lanes: Anti IDO1 (PA1611) at 0.5ug/ml
Lane 1: SMMC Whole Cell Lysate at 40ug
Lane 2: A549 Whole Cell Lysate at 40ug
Lane 3: Human Placenta Tissue Lysate at 50ug
Lane 4: SW620 Whole Cell Lysate at 40ug
Lane 5: U87 Whole Cell Lysate at 40ug
Lane 6: 293T Whole Cell Lysate at 40ug
Lane 7: A431 Whole Cell Lysate at 40ug
Lane 8: HELA Whole Cell Lysate at 40ug
Lane 9: COLO320 Whole Cell Lysate at 40ug
Predicted bind size: 45KD
Observed bind size: 45KD

2 Publications Citing This Product

1. PubMed ID: 27418932, Umbilical Cord Tissue-Derived Mesenchymal Stem Cells Induce T Lymphocyte Apoptosis and Cell Cycle Arrest by Expression of Indoleamine 2, 3-Dioxygenase
2. PubMed ID: 19948041, Expression of indoleamine 2, 3-dioxygenase in nasopharyngeal carcinoma impairs the cytolytic function of peripheral blood lymphocytes

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