BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody Picoband®

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 Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody catalog # PA1611. Tested in WB applications. This antibody reacts with Human. 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

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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	Western blot, 0.1-0.5ug/ml, Human

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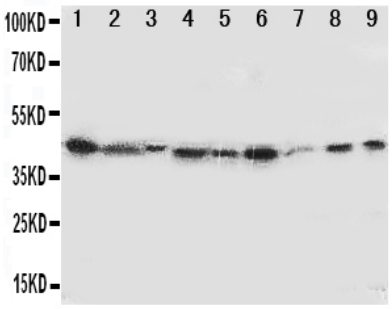
Anti-Indoleamine 2, 3-dioxygenase/IDO1 Antibody Picoband® (PA1611) Images



Anti-IDO1 antibody, PA1611, Western blottingAll 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

Visit bosterbio.com/anti-ido1-antibody-pa1611-boster.html to see all 2 publications.

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