

Anti-IDO1/Ido Monoclonal Antibody

Catalog Number: M01705-1

About IDO1

Indoleamine 2, 3-dioxygenase1 (IDO1) is a 41-42 kD intracellular enzyme that catabolizes tryptophan into kynurenine. IDO1 modulates levels of the amino acid tryptophan, which is vital for cell growth, but is also involved in the suppression of the immune response. IDO1 effects on immune suppression are due to decreased tryptophan availability and the generation of tryptophan metabolites, resulting in negative effects on T lymphocytes, including proliferation, function and survival. IDO1 may be involved in the suppression of the immune response to tumors, and blocking the IDO1 pathway may be a potential target for immuno and cancer therapy. IDO1 is expressed in a wide variety of tissues and can be upregulated by interferon gamma and other inflammatory cytokines.

Overview

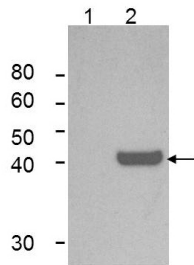
Product Name	Anti-IDO1/Ido Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-IDO1/Ido Monoclonal Antibody (Catalog # M01705-1). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, WB
Clonality	Monoclonal Clone: 10.1 IgG3
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Host	Mouse
Uniprot ID	P14902

Technical Details

Immunogen	Anti-IDO1 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with fragment of recombinant human and mouse IDO1 protein followed by hybridoma development.
Predicted Reactive Species	Chimpanzee
Isotype	IgG3
Form	Liquid (sterile filtered)
Concentration	1.09 mg/mL by UV absorbance at 280 nm

Purification	Anti-IDO1 was purified from concentrated tissue culture supernate by Protein G chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human and mouse IDO1 protein. A BLAST analysis was used to suggest cross-reactivity with IDO1 from human and mouse sources based on 100% homology with the immunizing sequence. Cross-reactivity with IDO1 from other sources has not been determined.
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>ELISA: 1:5000-1:50000</p> <p>IHC: 1:100-1:500</p> <p>IF Microscopy: 1:50-1:100</p> <p>IP: 10-100 μL</p> <p>WB: 1:500-1:1500</p>

Anti-IDO1/Ido Monoclonal Antibody (M01705-1) Images



Western blot analysis of IDO1 expression in untreated HeLa cells (lane 1) and IFN-r treated HeLa cells (lane 2). IDO1 at 41-42KD was detected using mouse anti-IDO1 Antigen Affinity purified monoclonal antibody (Catalog # M01705-1) at 1:1000. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1001).

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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