

Anti-IDO1/Ido Monoclonal Antibody

Catalog Number: M01705

About IDO1

Anti-IDO-1 antibody recognizes 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

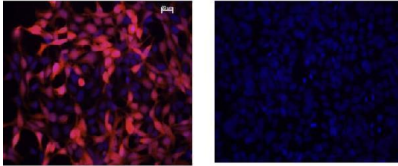
Product Name	Anti-IDO1/Ido Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-IDO1/Ido Monoclonal Antibody (Catalog # M01705). Tested in ELISA, Flow Cytometry, IF, IHC, WB applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, IP, IF, IHC, WB
Clonality	Monoclonal Clone: 2E2.6 IgG1
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. (Ship on dry ice.)
Host	Mouse
Uniprot ID	P28776

Technical Details

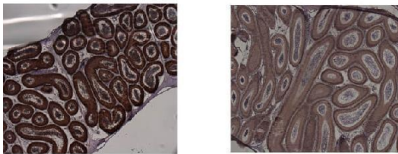
Immunogen	IDO1 antibody was produced in mouse by repeated immunizations with mouse recombinant IDO1 protein followed by hybridoma development.
Predicted Reactive Species	Chimpanzee
Isotype	IgG1
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm

Purification	Anti-IDO1 antibody was purified from ascites fluid by Protein A chromatography followed by extensive dialysis against the buffer stated above. IDO1 antibody is specific for mouse IDO1 protein. Mouse IDO1 does not react with human tissues. Cross-reactivity with IDO1 from other sources has not been determined.
Suggested Dilutions	ELISA: 1:5000-1:50000 Flow Cytometry: 0.5-1x10 ⁶ cells IHC: User optimized IF Microscopy: 1:50-1:100 IP: 10-100 µL WB: 1:500-1:1500 Anti-IDO1 antibody has been tested for use in ELISA, Western Blot, IF, IHC, and Flow Cytometry. Specific conditions for reactivity should be optimized by the end user.

Anti-IDO1/Ido Monoclonal Antibody (M01705) Images



Immunofluorescence Microscopy of Mouse Anti-IDO1 Antibody. Cells: HEK293 cells. Fixation: 0.5% PFA. Expressing: mouse IDO-1 (left) and mouse IDO-2 (right). Primary antibody: IDO1 (2E2) monoclonal antibody. Antigen retrieval: not required. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1 is located in the cytosol. Staining: IDO1 as red fluorescent signal with bis-benzimide nuclear counterstain (blue).



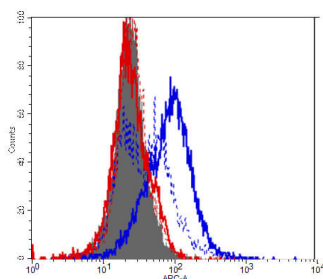
Immunohistochemistry of Mouse anti-IDO1 antibody. Tissue: epididymis from wild-type (left) or IDO1 null mice (right). Fixation: paraffin-embedded. Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1 is located in the cytosol. Staining: IDO 1 as precipitated brown signal.



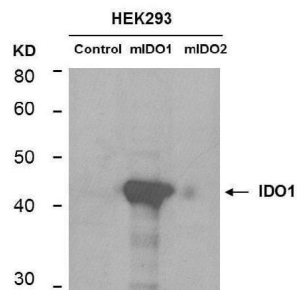
Immunohistochemistry of Mouse Anti-IDO1 Antibody. Tissue: epididymis from wild-type (left) or IDO1 null mice (right). Fixation: frozen sections. Antigen retrieval: not required. Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1 is located in the cytosol. Staining: IDO 1 as precipitated brown signal.



Western Blot of Mouse Anti-IDO1 Antibody. Extracts from 293HEK Cells expressing: Lane 1: Control Vector. Lane 2: His-tagged mouse IDO1. Lane 3: mouse IDO1. Lane 4: His-tagged mouse IDO2. Lane 5: mouse IDO2. Lane 6: Epididymis from IDO null. Lane 7: wild type mice. Primary antibody: IDO-1(2E2) monoclonal antibody. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 1xPBST overnight at 4°C. Predicted/Observed size: 41-42 kDa/41-42 kDa for IDO-1. Other band(s): none.



Flow Cytometry of Mouse Anti-IDO1 antibody. Cells: HEK293 cells. Expressing: mouse IDO-1(blue) and mouse IDO-2 (red). Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Biotin mouse secondary antibody at 1:10,000 for 45 min at RT and streptavidin PE at 1:5,000 for 30 min at RT.



Western Blot of mouse anti-IDO1 antibody. Lane 1: HEK293 control vector. Lane 2: HEK293 expressing mouse IDO1. Lane 3: HEK293 expressing mouse IDO2. Load: 35 µg per lane. Primary antibody: IDO 1 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 45.6 kDa, ~44 kDa for IDO1. Other band(s): non-specific.

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