

Product datasheet for **TA319586**

Ido1 Mouse Monoclonal Antibody [Clone ID: 2E2.6]

Product data:

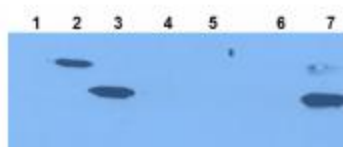
Product Type:	Primary Antibodies
Clone Name:	2E2.6
Applications:	FC, IF, IHC, WB
Recommended Dilution:	ELISA: 1:5000-1:50000, WB: 1:500-1:1500, IF: 1:50-1:100, IP: 10-100 uL, FC: 0.5-1x10 ⁶ cells
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	IDO1 antibody was produced in mouse by repeated immunizations with mouse recombinant IDO1 protein followed by hybridoma development.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	indoleamine 2,3-dioxygenase 1
Database Link:	NP_032350 Entrez Gene 15930 Mouse P28776
Synonyms:	CD107B; IDO; INDO



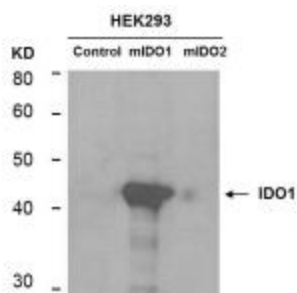
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Note: Anti-IDO-1 antibody recognizes indoleamine 2, 3-dioxygenase1 (IDO1) is a 41-42 kD intracellular enzyme that catabolizes tryptophan into kynurenine. IDO1 modulates levels of the amino acid tryptophan, which is vital for cell growth, but is also 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.

Product images:



WB 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.



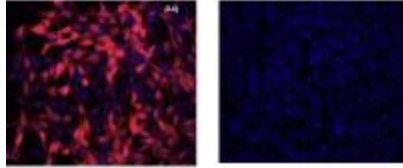
Western Blot of mouse anti-IDO1 antibody. Lane 1: HEK293 control vector. Lane 2: HEK293 expressing mouse IDO1. Lane 3: HEK293 expressing mouse IDO2. Load: 35 ug per lane. Primary antibody: IDO 1 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 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-specifics.



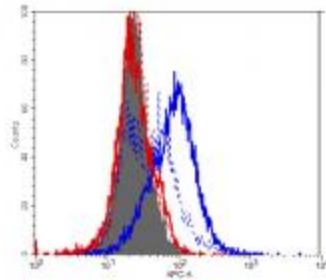
Immunohistochemistry of Mouse anti-IDO1 antibody. Tissue: epididymis from wild-type (left) or IDO1 null mice (right). Fixation: paraffin-embedded. Primary antibody: IDO1 (2E2) monoclonal antibody. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: IDO-1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



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).



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.