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Product datasheet for TA506367

IDO1 Mouse Monoclonal Antibody [Clone ID: OTI2G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2G4
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:200~2000, IHC 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human IDO1(NP_002155) produced in HEk293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45.1 kDa
Gene Name:	indoleamine 2,3-dioxygenase 1
Database Link:	NP_002155 Entrez Gene 3620 Human P14902

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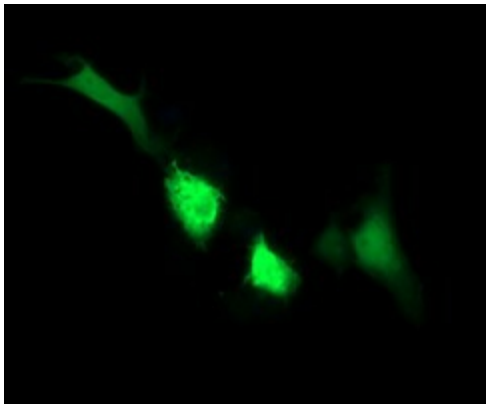
Background: This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan. [provided by RefSeq, Feb 2011]

Synonyms: IDO; IDO-1; INDO

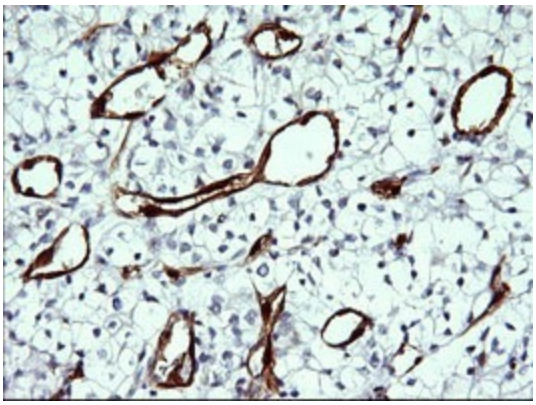
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Anti-IDO1 mouse monoclonal antibody (TA506367) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY IDO1 ([RC206592]).



Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-IDO1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA506367)

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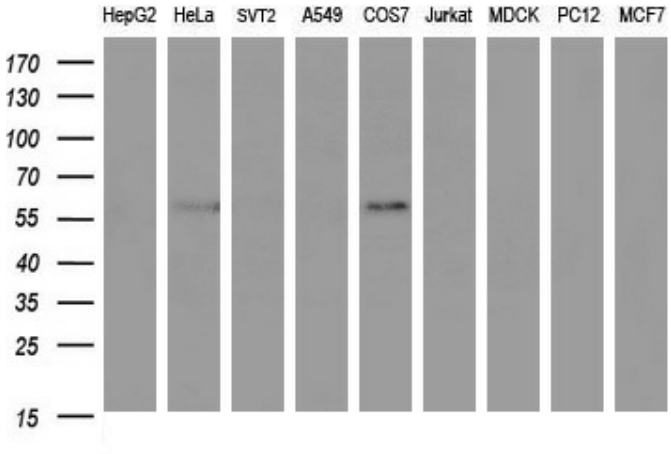

Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-IDO1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).

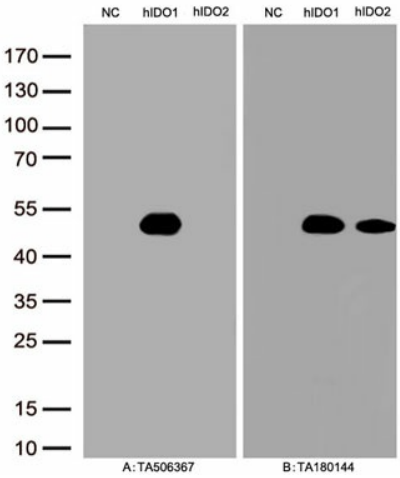

Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human IDO1 plasmid ([RC206592], hIDO1), human IDO2 plasmid ([RC223337], hIDO2) using anti-IDO1 antibody TA506367(1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)

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