OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for UM500091

IDO1 Mouse Monoclonal Antibody [Clone ID: UMAB126]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB126
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	IHC 1:100~200
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:	0.5~1.0 mg/ml (Lot Dependent)
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

View online »

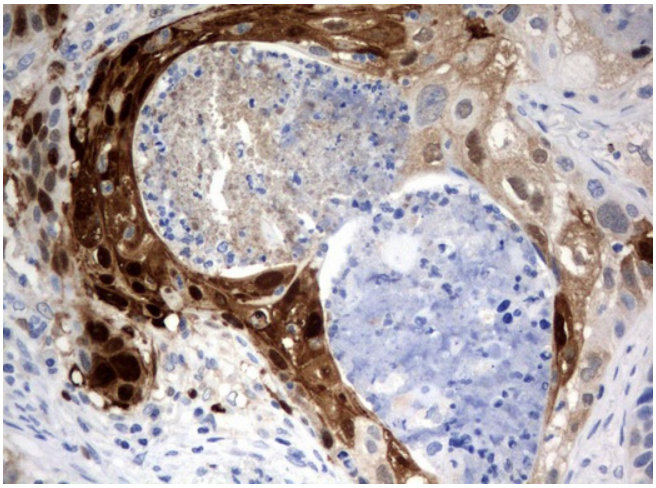
Background: This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and 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

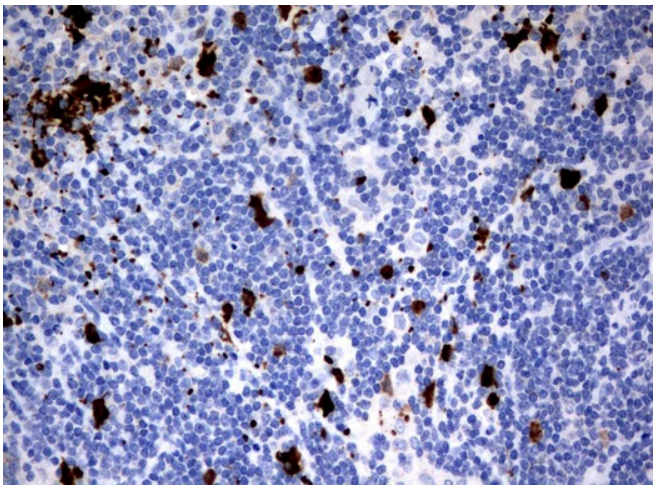
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tryptophan metabolism

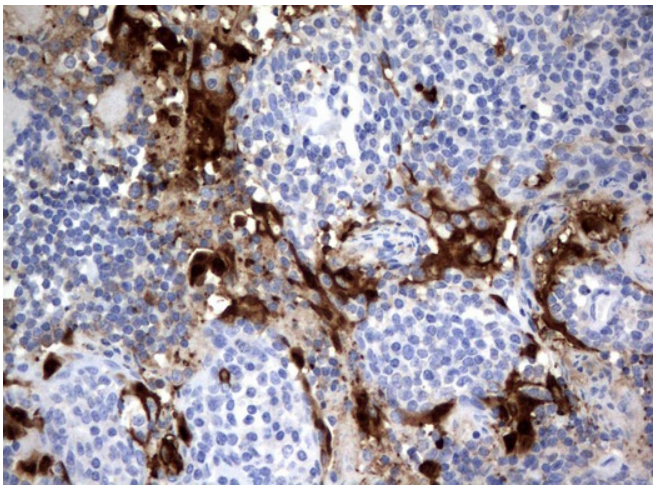
Product images:



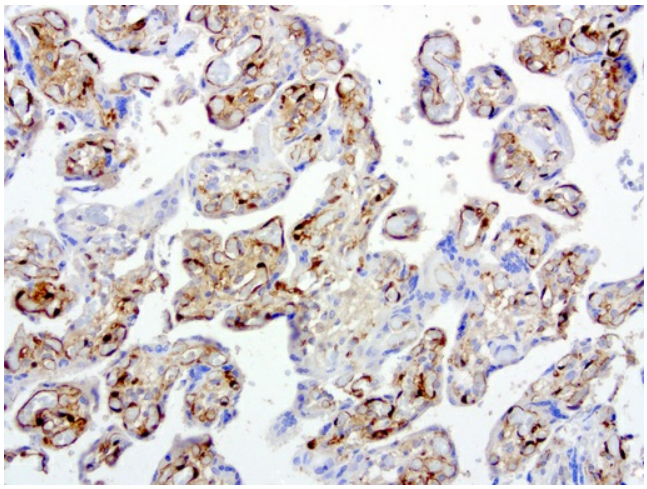
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-IDO1 mouse monoclonal antibody. (UM500091; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



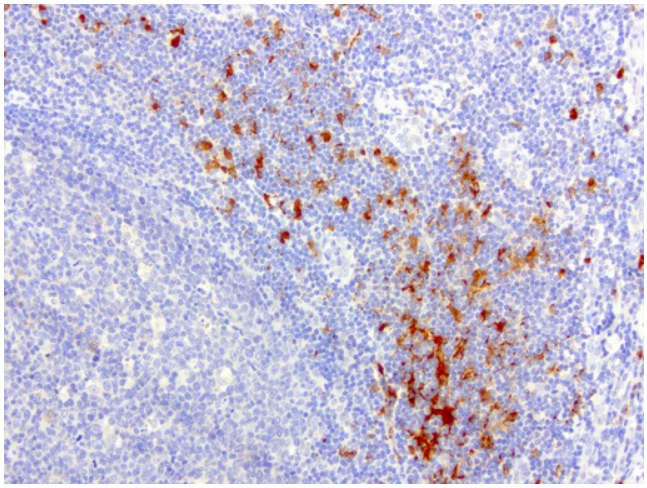
Immunohistochemical staining of paraffin-embedded Human lymph node tissue using anti-IDO1 mouse monoclonal antibody. (UM500091; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



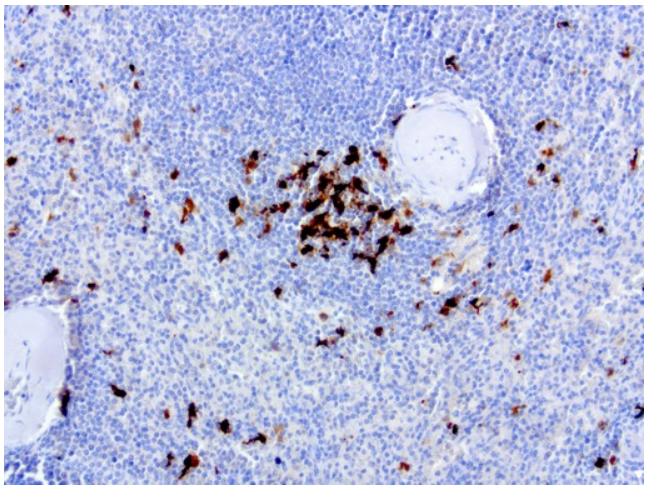
Immunohistochemical staining of paraffin-embedded Human tonsil using anti-IDO1 mouse monoclonal antibody. (UM500091; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



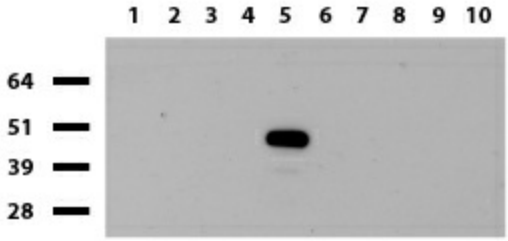
Immunohistochemical staining of paraffin-embedded human placenta using anti-IDO1 clone UMAB126 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. UM500091 requires HIER with with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The placenta shows strong membrane and cytoplasmic in the endothelial cells.



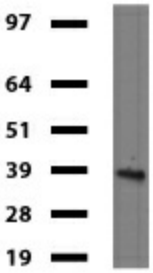
Immunohistochemical staining of paraffin-embedded human tonsil using anti-IDO1 clone UMAB126 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. UM500091 requires HIER with with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The tonsil shows strong membrane and cytoplasmic in the germinal center and rare strong nuclear, membrane, and cytoplasmic staining in the non germinal centers.



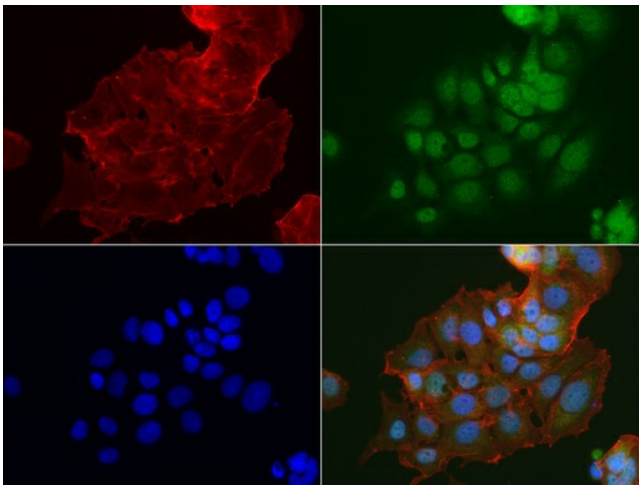
Immunohistochemical staining of paraffin-embedded human spleen using anti-IDO1 clone UMAB126 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. UM500091 requires HIER with with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The spleen shows very few cells staining in the red pulp with strong nuclear, membrane, and cytoplasmic staining.



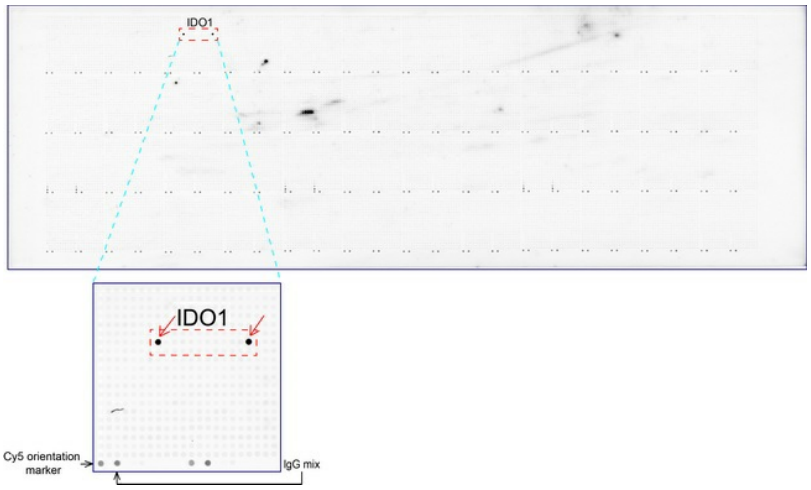
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Thyroid, 7: Colon, 8: Spleen 9: Liver, 10: Ovary). Diluation: 1:500.



Western blot of mouse tissue lysates (20ug) from Brian. Primary antibody diluation: 1:500. Secondary antibody dilution: Mouse TrueBlot® Ultra (1:1000).



Immunofluorescent staining of MCF-7 cells using anti-IDO1 mouse monoclonal antibody (UM500091, green, 1:100). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-IDO1 mouse monoclonal antibody (UM500091). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.