Datasheet: OBT2037G

BATCH NUMBER 169723

Description:	MOUSE ANTI HUMAN INDOLEAMINE 2,3-DIOXYGENASE
Specificity:	INDOLEAMINE 2,3-DIOXYGENASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10.1
Isotype:	IgG3
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Antibody purified from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Peptide corresponding to amino acids 78-184 of human IDO fused to GST.
External Database Links	**UniProt:** P14902 Related reagents **Entrez Gene:** 3620 IDO1 Related reagents
Synonyms	IDO, INDO
RRID	AB_620055
Specificity	**Mouse anti Human Indoleamine 2,3-Dioxygenase antibody, clone 10.1** recognizes Indoleamine-pyrrole 2,3 - dioxygenase (IDO), an enzyme responsible for the catabolism of tryptophan to N-formylkynurenine and kynurenine. With the exception of tryptophan oxidase in hepatocytes, IDO is the only enzyme that degrades the amino acid tryptophan to kynurenine. Chlamydial pathogens require tryptophan for growth. IDO can lower available tryptophan in target cells leading to conversion of the pathogen to persistant forms, with significance in the progression to chronic infection with its associated pathological effects.
Western Blotting	OBT2037G recognizes a 45kDa band in IFN-gamma treated human cell lines. This antibody recognizes a slightly lower molecular weight band in Mouse IDO compared to its human counterpart.
References	1. Muller, A.J. *et al.* (2005) Inhibition of indoleamine 2,3-dioxygenase, an immunoregulatory target of the cancer suppression gene Bin1, potentiates cancer chemotherapy. Nat Med. 11 (3): 312-9. 2. Sakash, J.B. *et al.* (2002) Cytokines induce indoleamine 2,3-dioxygenase expression in human atheroma-asociated cells: implications for persistent Chlamydophila pneumoniae infection. Infect Immun. 70 (7): 3959-61. 3. Feder-Mengus, C. *et al.* (2008) High expression of indoleamine 2,3-dioxygenase gene in prostate cancer. Eur J Cancer. 44 (15): 2266-75. 4. Kudo-Saito, C. *et al.* (2013) CCL2 is critical for immunosuppression to promote cancer metastasis. Clin Exp Metastasis. 30 (4): 393-405. 5. Zuliani, T. *et al.* (2013) Fetal fibroblasts and keratinocytes with immunosuppressive properties for allogeneic cell-based wound therapy. PLoS One. 8 (7): e70408. 6. Ortiz-Lazareno, P.C. *et al.* (2017) Heme oxygenase and indoleamine regulation by cytokines in cervical cancer cells and natural killer cells cytotoxic activity Gac Mex Oncol. 16 (5): 270-5.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at

	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT2037G
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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