

Datasheet: OBT2037G

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.
Product Form	Purified IgG - liquid
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
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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 persistent forms, with significance in the progression to chronic infection with its associated pathological effects.
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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.
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References	<ol style="list-style-type: none">1. Muller, A.J. <i>et al.</i> (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. <i>et al.</i> (2002) Cytokines induce indoleamine 2,3-dioxygenase expression in human atheroma-associated cells: implications for persistent Chlamydia pneumoniae infection. Infect Immun. 70 (7): 3959-61.
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10303 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG3 (HCA039...) [FITC](#), [HRP](#), [RPE](#)

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