

Datasheet: OBT2037G

BATCH NUMBER 159819

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| 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.

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| Target Species | Human |
| Species Cross Reactivity | <p>Reacts with: Mouse</p> <p>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.</p> |
| Product Form | Purified IgG - liquid |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.1% Sodium Azide (NaN ₃) |

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| 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 | <p>UniProt: P14902 Related reagents</p> <p>Entrez Gene: 3620 IDO1 Related reagents</p> |
| Synonyms | IDO, INDO |
| RRID | AB_620055 |
| Specificity | <p>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.</p> |
| 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 | <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. |
| Storage | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | <p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT2037G 10040</p> |

Related Products

Recommended Secondary Antibodies

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|---|---|
| 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 |

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M381658:210512'

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