

Datasheet: MCA5433Z

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| Description: | MOUSE ANTI HUMAN INDOLEAMINE 2,3-DIOXYGENASE:Preservative Free |
| Specificity: | INDOLEAMINE 2,3-DIOXYGENASE |
| Other names: | IDO |
| Format: | Preservative Free |
| Product Type: | Monoclonal Antibody |
| Clone: | 4D2 |
| Isotype: | IgG2b |
| 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 |
|--------------------------------|-----|----|----------------|--------------------|
| Immunohistology - Paraffin (1) | ▪ | | | 0.1 - 10 ug/ml |
| Western Blotting | ▪ | | | 0.1 - 10 ug/ml |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.

Sodium citrate buffer pH 6.0 is recommended for this purpose.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |
| Approx. Protein Concentrations | Ig concentration 0.5 mg/ml |
| Immunogen | Recombinant protein corresponding to aa 1-404 of human Indoleamine 2,3-dioxygenase. |
| External Database Links | UniProt: |

[P14902](#) [Related reagents](#)

Entrez Gene:

[3620](#) IDO1 [Related reagents](#)

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| Synonyms | IDO, INDO |
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|-------------|-------------|
| RRID | AB_10545894 |
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| Fusion Partners | Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line. |
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| Specificity | Mouse anti Human indoleamine 2,5-dioxygenase antibody, clone 4D2 recognizes human Indoleamine 2,3-dioxygenase 1, also known IDO-1. IDO-1 is a 403 amino acid ~50 kDa enzyme involved in tryptophan catabolism. IDO-1 is expressed in lymphoid organ dendritic cells and in some epithelial cells. It is not expressed in most tissues but expression is usually inducible by interferon γ (Taylor and Feng 1991). |
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|------------------------------------------|--------------|
| Histology Positive Control Tissue | Human Spleen |
|------------------------------------------|--------------|

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| References | <ol style="list-style-type: none">1. Garraway, L. <i>et al.</i> (2016) Kynurenine Pathway Biomarkers Predictive of Anti-Immune Checkpoint Inhibitor Response. Publication number US20160299146 A12. Brocard, A. <i>et al.</i> (2017) Clinical, Genetic and Innate Immunity Characteristics of Melanoma in Organ Transplant Recipients. Acta Derm Venereol. 97 (4): 483-8. |
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| Storage | Store at -20°C only. 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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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf |
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|-------------------|----------------------------|
| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

| | |
|-----------------------------------------|--------------------------------------------------|
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight®800 |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Preservative Free \(MCA691XZ\)](#)

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