

## Datasheet: MCA5433Z

<b>Description:</b>	MOUSE ANTI HUMAN INDOLEAMINE 2,3-DIOXYGENASE:Preservative Free
<b>Specificity:</b>	INDOLEAMINE 2,3-DIOXYGENASE
<b>Other names:</b>	IDO
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4D2
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present

<b>Approx. Protein Concentrations</b>	Ig concentration 0.5 mg/ml
<b>Immunogen</b>	Recombinant protein corresponding to aa 1-404 of human Indoleamine 2,3-dioxygenase.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P14902</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3620</a>    IDO1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IDO, INDO
<b>RRID</b>	AB_10545894
<b>Fusion Partners</b>	Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human indoleamine 2,5-dioxygenase antibody, clone 4D2</b> 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 $\gamma$ ( <a href="#">Taylor and Feng 1991</a> ).
<b>Histology Positive Control Tissue</b>	Human Spleen
<b>References</b>	<ol style="list-style-type: none"> <li>Garraway, L. <i>et al.</i> (2016) Kynurenine Pathway Biomarkers Predictive of Anti-Immune Checkpoint Inhibitor Response. <a href="#">Publication number US20160299146 A1</a></li> <li>Brocard, A. <i>et al.</i> (2017) Clinical, Genetic and Innate Immunity Characteristics of Melanoma in Organ Transplant Recipients. <a href="#">Acta Derm Venereol. 97 (4): 483-8.</a></li> </ol>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5433Z">https://www.bio-rad-antibodies.com/SDS/MCA5433Z</a> 10162
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
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 (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

## Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)

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