

Datasheet: MCA5433Z

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.

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:

Entrez Gene:

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

Synonyms	IDO, INDO
Fusion Partners	Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.
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).
Histology Positive Control Tissue	Human Spleen
References	1. Garraway, L. <i>et al.</i> (2016) Kynurenine Pathway Biomarkers Predictive of Anti-Immune Checkpoint Inhibitor Response. Publication number US20160299146 A1 2. 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.
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

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 IgG2b (HCA038...) [FITC](#), [HRP](#)

Recommended Negative Controls

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

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