Datasheet: MCA2485

Description:	MOUSE ANTI FOXP1
Specificity:	FOXP1
Other names:	FORKHEAD BOX P1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JC12
Isotype:	IgG2a
Quantity:	0.2 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 (1)	▪			1/200 - 1/500
ELISA			▪	
Immunoprecipitation			▪	
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.

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

1mM EDTA pH8.0 is recommended for this purpose.

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
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A synthetic peptide corresponding to a region adjacent to the C-terminus of human Bcl-2-like protein 1 (Bcl-X) with the sequence NAAAESRKGQERFN-C (c-terminal cysteine for coupling). **Note: This immunizing sequence is not pertinent to the isolation of the derived clone (see specificity).**
External Database Links	**UniProt:** Q9H334 Related reagents **Entrez Gene:** 27086 FOXP1 Related reagents
Specificity	**Mouse anti FOXP1 antibody, clone JC12** recognizes human FOXP1, also known as Forkhead box protein P1, Mac-1-regulated forkhead or MFH. FOXP1 is a 677 amino acid~85 kDa transcriptional repressor and member of the winged helix/forkhead transcription factor family. The FOXP1 transcription factor is widely expressed in human tissues and is predominantly localised to the nucleus. However, the level of expression does vary between cells and between different tissues. The expression of FOXP1 is reported to be abnormal in a range of solid tumours (Giatromanolaki *et al.* 2006). Mouse anti FOXP1 antibody, clone JC12 does not recognize closely related molecules FOXP2, FOXP3 or FOXP4. Mouse anti FOXP1 antibody, clone JC12 was derived from a fusion intended to isolate antibodies against human Bcl-X. However the JC12 clone did not bind to the immunogen and was considered to be from a B cell secreting an autoantibody expanded during the fusion process. Sequencing of the bound target indicated that the clone JC12 recognizes both human and murine FOXP1 (Banham *et al.* 2001).
Histology Positive Control Tissue	Human tonsil.
References	1. Banham, A.H. *et al.* (2005) Expression of the FOXP1 transcription factor is strongly associated with inferior survival in patients with diffuse large B-cell lymphoma. Clin Cancer Res. 11 (3): 1065-72. 2. Banham, A.H. *et al.* (2001) The FOXP1 winged helix transcription factor is a novel candidate tumor suppressor gene on chromosome 3p. Cancer Res. 61 (24): 8820-9. 3. Yamada, S. *et al.* (2012) Forkhead box P1 overexpression and its clinicopathologic significance in peripheral T-cell lymphoma, not otherwise specified. Hum Pathol. 43 (8): 1322-7. 4. Yu, B. *et al.* (2011) FOXP1 expression and its clinicopathologic significance in nodal and extranodal diffuse large B-cell lymphoma. Ann Hematol. 90 (6): 701-8. 5. Hu, C.R. *et al.* (2013) Both FOXP1 and p65 expression are adverse risk factors in diffuse large B-cell lymphoma: a retrospective study in China. Acta Histochem. 115 (2): 137-43. 6. Hoefnagel, J.J. *et al.* (2006) Expression of B-cell transcription factors in primary cutaneous B-cell lymphoma. Mod Pathol. 19 (9): 1270-6. 7. Marafioti, T. *et al.* (2008) Novel markers of normal and neoplastic human plasmacytoid dendritic cells. Blood. 111 (7): 3778-92. 8. Yu, B.H. *et al.* (2018) Cytoplasmic FOXP1 expression is correlated with ER and calpain II expression and predicts a poor outcome in breast cancer. Diagn Pathol. 13 (1): 36.

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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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
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
Human Anti Mouse IgG2a (HCA037...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

Recommended Useful Reagents

HISTAR DETECTION SYSTEM (STAR3000A)
HISTAR DETECTION SYSTEM (STAR3000B)
HISTAR DETECTION SYSTEM (STAR3000C)

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