

## Datasheet: MCA2485

|                      |                     |
|----------------------|---------------------|
| <b>Description:</b>  | MOUSE ANTI FOXP1    |
| <b>Specificity:</b>  | FOXP1               |
| <b>Other names:</b>  | FORKHEAD BOX P1     |
| <b>Format:</b>       | Purified            |
| <b>Product Type:</b> | Monoclonal Antibody |
| <b>Clone:</b>        | JC12                |
| <b>Isotype:</b>      | IgG2a               |
| <b>Quantity:</b>     | 0.2 mg              |

## Product Details

**RRID** AB\_2071556

### 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 |
|--------------------------------|-----|----|----------------|--------------------|
| 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<sub>3</sub>)

|  |   |
|--|---|
| <b>Carrier Free</b>                      | Yes   |
| <b>Approx. Protein Concentrations</b>    | IgG concentration 1.0mg/ml  |
| <b>Immunogen</b>                         | 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).<br><b>Note: This immunizing sequence is not pertinent to the isolation of the derived clone (see specificity).</b>  |
| <b>External Database Links</b>           | <b>UniProt:</b><br><a href="#">Q9H334</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">27086</a> FOXP1 <a href="#">Related reagents</a>   |
| <b>Specificity</b>                       | <b>Mouse anti FOXP1 antibody, clone JC12</b> 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 <a href="#">winged helix/forkhead</a> 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 ( <a href="#">Giatromanolaki et al. 2006</a> ).<br><br>Mouse anti FOXP1 antibody, clone JC12 does not recognize closely related molecules FOXP2, FOXP3 or FOXP4.<br><br>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 ( <a href="#">Banham et al. 2001</a> ).  |
| <b>Histology Positive Control Tissue</b> | Human tonsil.   |
| <b>References</b>                        | <ol style="list-style-type: none"> <li>Banham, A.H. <i>et al.</i> (2005) Expression of the FOXP1 transcription factor is strongly associated with inferior survival in patients with diffuse large B-cell lymphoma. <a href="#">Clin Cancer Res. 11 (3): 1065-72.</a></li> <li>Banham, A.H. <i>et al.</i> (2001) The FOXP1 winged helix transcription factor is a novel candidate tumor suppressor gene on chromosome 3p. <a href="#">Cancer Res. 61 (24): 8820-9.</a></li> <li>Yamada, S. <i>et al.</i> (2012) Forkhead box P1 overexpression and its clinicopathologic significance in peripheral T-cell lymphoma, not otherwise specified. <a href="#">Hum Pathol. 43 (8): 1322-7.</a></li> <li>Yu, B. <i>et al.</i> (2011) FOXP1 expression and its clinicopathologic significance in nodal and extranodal diffuse large B-cell lymphoma. <a href="#">Ann Hematol. 90 (6): 701-8.</a></li> <li>Hu, C.R. <i>et al.</i> (2013) Both FOXP1 and p65 expression are adverse risk factors in diffuse large B-cell lymphoma: a retrospective study in China. <a href="#">Acta Histochem. 115 (2): 137-43.</a></li> <li>Hoefnagel, J.J. <i>et al.</i> (2006) Expression of B-cell transcription factors in primary cutaneous B-cell lymphoma. <a href="#">Mod Pathol. 19 (9): 1270-6.</a></li> <li>Marafioti, T. <i>et al.</i> (2008) Novel markers of normal and neoplastic human plasmacytoid dendritic cells. <a href="#">Blood. 111 (7): 3778-92.</a></li> <li>Yu, B.H. <i>et al.</i> (2018) Cytoplasmic FOXP1 expression is correlated with ER and calpain II</li> </ol> |

expression and predicts a poor outcome in breast cancer. [Diagn Pathol. 13 \(1\): 36.](#)

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|--------------------------------------|---|
| <b>Storage</b>                       | Store at +4°C or at -20°C if preferred.<br>Storage in frost-free freezers is not recommended.<br>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. |
| <b>Guarantee</b>                     | 18 months from date of despatch.  |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at:<br>10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>  |
| <b>Regulatory</b>                    | 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](#)  
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [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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