

## Datasheet: MCA4991Z

<b>Description:</b>	MOUSE ANTI HUMAN TCF4:Preservative Free
<b>Specificity:</b>	TCF4
<b>Other names:</b>	TF7L2
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3A4
<b>Isotype:</b>	IgG1
<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	▪			0.1 - 10 ug/ml
Western Blotting	▪			0.1 - 10 ug/ml
Immunofluorescence	▪			0.1 - 10 ug/ml

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<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 490-597 of human TCF4.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9NQB0</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p>

<b>Synonyms</b>	TCF4
<b>Fusion Partners</b>	Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human TCF4 antibody, clone 3A4</b> recognizes human Transcription factor 7-like 2, also known as TCF4, HMG box transcription factor 4 or T-cell-specific transcription factor 4. TCF4 is a 619 amino acid ~68 kDa transcriptional activator participating in the Wnt signaling pathway and is required for maintenance of the epithelial stem cell compartment in the small intestine (<a href="#">Barker et al. 1999</a>).</p> <p>Multiple isoforms of TCF4 generated by alternative splicing have been described. Mouse anti Human TCF4 antibody, clone 3A4 is expected to bind to the canonical isoform 1, also known as TCF-4M and is also likely to recognize isoforms 3, 5, 7, 8, 13 and 16 which all contain the immunogen sequence used to generate clone 3A4. Mouse anti Human TCF4 antibody, clone 3A4 is not expected to recognize other listed isoforms which lack the immunogen sequence (<a href="#">UniProt : Q9NQB0</a>).</p> <p>Variations in the TCF4 gene can confer risk of Diabetes mellitus, non-insulin-dependent (<a href="#">NIDDM</a>), a disease affecting glucose homeostasis due to a lack of insulin sensitivity and characterized by insulin resistance, hypertension and hypertriglyceridemia (<a href="#">Grant et al. 2006</a>).</p>
<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>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet Documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf</a></p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Human Anti Mouse IgG1 (HCA036...) [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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