

Datasheet: VMA00808

Description:	MOUSE ANTI TCF3
Specificity:	TCF3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/1E7
Isotype:	IgG1
Quantity:	100 µl

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
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - Liquid

Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 100-654 of human TCF3

External Database Links

UniProt:

[P15923](#) [Related reagents](#)

Entrez Gene:

[6929](#) TCF3 [Related reagents](#)

Synonyms BHLHB21, E2A, ITF1

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti TCF3 antibody** recognizes transcription factor E2-alpha, also known as BHLHB21, E2A, and ITF1.

TCF3 is a member of the E protein (class 1) family of helix-loop-helix transcription factors. The protein plays important roles in maintenance and differentiation of stem cells, and is thought to be an important regulator of stem cell identity. Accordingly, deletion of the gene encoding TCF3 leads to high expression of pluripotency genes and delays differentiation of embryonic stem cells ([Yamazaki et al. 2018](#)). TCF3 is required for survival and tumorigenicity of colorectal cancer cells ([Taniue et al. 2016](#)). The fusion protein TCF3-PBX1 is an oncogenic transcription factor, occurring in a subset of acute lymphoblastic leukemias ([Eldfors et al. 2017](#)). In addition, as a chimeric transcription factors, TCF3-HLF defines an incurable subtype of acute lymphoblastic leukemia ([Huang et al. 2019](#)).

Western Blotting Mouse anti TCF3 antibody detects a band of approximately 70 kDa in HEK293 cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information Material Safety Datasheet documentation #10040 available at: Antibody (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 (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

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

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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

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