

Datasheet: VMA00972

Description:	MOUSE ANTI TFEB
Specificity:	TFEB
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/2D12
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
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
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-476 of human TFEB

**External Database
Links**

UniProt:

[P19484](#) [Related reagents](#)

Entrez Gene:

[7942](#) TFEB [Related reagents](#)

Synonyms

BHLHE35

Fusion Partners

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

Specificity

Mouse anti TFEB antibody recognizes transcription factor EB, also known as bHLHe35. TFEB1 is a transcription factor which plays an important role in cellular processes including lysosomal biogenesis, cellular energy metabolism, lipid catabolism and autophagy. TFEB activity and localization is regulated by mTOR at the surface of lysosomes ([Napolitano and Ballabio, 2016](#)). When activated, TFEB controls the expression of genes that regulate biogenesis of lysosomes and autophagosomes ([Nnah et al. 2019](#)). Evidence has also shown that TFEB becomes activated in response to mitochondrial and ER stress, suggesting a role in cellular adaptation to stress ([Raben and Puertollano 2016](#)). TFEB is upregulated in a range of cancer types including non-Hodgkin's lymphoma. In late-stage colorectal cancer, it is been suggested that TFEB could regulate autophagy and promote tumor growth and metastasis ([Liang et al. 2018](#)).

Western Blotting

Mouse anti TFEB detects a band of approximately 62 kDa in Raji 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:
<https://www.bio-rad-antibodies.com/SDS/VMA00972>
Antibody (10040)

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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