

Datasheet: VMA00972

**BATCH NUMBER 100005855**

<b>Description:</b>	MOUSE ANTI TFEB
<b>Specificity:</b>	TFEB
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB01/2D12
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<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](#)

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**Synonyms**

BHLHE35

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**Fusion Partners**

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

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**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](#)).

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**Western Blotting**

Mouse anti TFEB detects a band of approximately 62 kDa in Raji cell lysates

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**Storage**

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

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00972>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
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