

Datasheet: VMA00032

Description:	MOUSE ANTI TRF1
Specificity:	TRF1
Other names:	TERF1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Recombinant TRF1
External Database Links	UniProt: P54274 Related reagents Entrez Gene: 7013 TRF1 Related reagents
Synonyms	PIN2, TRBF1, TRF, TRF1

Specificity

Mouse anti Human TRF1 antibody recognizes human telomeric repeat-binding factor 1, also known as TTAGGG repeat binding factor 1 (TRF1) or NIMA-interacting protein 2. TRF1 is a ubiquitously expressed 439 amino acid DNA binding protein and negative regulator of telomere length containing a single [Myb domain](#). Along with tankyrase-1, TIN2, and PINX1, TRF1 binds the double-stranded TTAGGG repeat of telomeres and regulates telomere length. Protection of telomeres-1 (POT1) is a single-stranded telomeric DNA-binding protein which controls the elongation of telomeres by telomerase. TRF1 mediates the loading of POT1 onto single stranded DNA, conveying information about telomere length to the telomere terminus, where telomerase is regulated. If the telomere is long enough, telomerase is inhibited.

Additionally, in conjunction with POT1 and TTAGGG repeat binding factor 2 (TRF2), TRF1 recruits factors to the telomere, inducing the formation of the protective t-loop. TRF1 along with TRF2, POT1, TIN2, TPP1 and Rap1 form the shelterin complex which distinguishes telomeres from sites of DNA damage ([Wellinger 2009](#)). TRF1 is thought to play a role in leukaemia ([Shi et al. 2006](#)).

Mouse anti Human TRF1 antibody recognizes human TRF1 as a single band of ~60 kDa in multiple human cell line lysates by western blotting under reducing conditions.

Western Blotting

Anti TRF1 antibody detects a band of approximately 60 kDa in K562 cell lysates.

Instructions For Use

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Storage

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

Shelf Life

As supplied, 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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