

## Datasheet: VMA00053KT

<b>Description:</b>	FYN ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	FYN
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	2 Westerns

### 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

**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

#### Species Cross Reactivity

Reacts with: Mouse, Rat

**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 purified by affinity chromatography on Protein G from tissue culture supernatant

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

**Immunogen** Bacterially expressed recombinant fragment of human FYN aa 7-176

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**External Database**

**Links**

**UniProt:**

[P06241](#) [Related reagents](#)

**Entrez Gene:**

[2534](#) FYN [Related reagents](#)

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**Specificity**

**Mouse anti Human FYN antibody** recognizes FYN, a member of the src family of non receptor protein tyrosine kinases, expressed by T-cells and natural killer (NK) cells, and highly expressed in brain.

FYN plays a vital role in thymocyte development and T cell activation and is essential for TCR-mediated signal transduction through association with the T-cell receptor (TCR)  $\epsilon$  chain/CD3 complex. This association, results in protein kinase activation and the subsequent protein tyrosine phosphorylation of multiple immunoreceptor tyrosine-based activation motifs (ITAMs), which triggers the phosphorylation of further substrates downstream in the T-cell signaling cascade.

Recent studies into Alzheimer's disease have implicated FYN in neurodegeneration, through the tyrosine phosphorylation of the microtubule-associated protein tau, a prominent component of neurofibrillary tangles.

Mouse anti Human FYN antibody recognizes FYN as a band of ~61 kDa in western blotting in multiple cell line lysates including myeloid, lymphoid, neuronal, adenocarcinoma, sarcoma and embryonic kidney.

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**Western Blotting**

Anti FYN antibody detects a band of approximately 61 kDa in HEK293 cell lysates.

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**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.

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**Lysate Composition**

400 $\mu$ g HEK293 lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution**

- If using DDT reconstitute the lyophilized lysate with 190 $\mu$ l DI H<sub>2</sub>O, add 200 $\mu$ l 2x Laemmli Sample Buffer and 10 $\mu$ l 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180 $\mu$ l DI H<sub>2</sub>O, add 200 $\mu$ l 2x Laemmli Sample Buffer and 20 $\mu$ l BME.  
Heat at 95°C for 5 minutes. For 10 well mini gels load 25 $\mu$ l. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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**Storage**

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

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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**Guarantee**

As supplied, 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 #10561 available at:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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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](#)

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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