

## 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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Bacterially expressed recombinant fragment of human FYN aa 7-176
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P06241</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2534</a> FYN   <a href="#">Related reagents</a></p>
<b>Specificity</b>	<b>Mouse anti Human FYN antibody</b> 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)  $\eta$  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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<b>Western Blotting</b>	Anti FYN antibody detects a band of approximately 61 kDa in HEK293 cell lysates.
<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
<b>Lysate Composition</b>	400 $\mu$ g HEK293 lysate lyophilized in RIPA buffer.
<b>Lysate Reconstitution</b>	- 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.
<b>Storage</b>	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.
<b>Shelf Life</b>	As supplied, 12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a>
<b>Regulatory</b>	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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