

Datasheet: MCA2379

Description:	MOUSE ANTI FYN
Specificity:	FYN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	FYN-01
Isotype:	IgG2b
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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	Bacterially expressed recombinant fragment of human fyn aa 7-176.

**External Database
Links**

UniProt:

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

Entrez Gene:

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

Specificity

Mouse anti Human Fyn antibody, clone FYN-01 recognizes Tyrosine-protein kinase Fyn, also known as p59-Fyn, proto-oncogene Syn, proto-oncogene c-Fyn or Src-like kinase (SLK). Fyn is a 535 amino acid ~59 kDa 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.

In neurodegenerative diseases such as Alzheimer's Fyn plays a role in neurodegeneration, through the tyrosine phosphorylation of the microtubule-associated protein tau, a prominent component of neurofibrillary tangles ([Lee et al. 2004](#), [Lau et al. 2016](#)).

**Histology Positive
Control Tissue**

Brain

Western Blotting

Clone FYN-01 detects a band of approximately 59kDa in Mouse EL-4 cell lysates.

References

1. Meraner, P. *et al.* (2007) Dendritic cells sensitize TCRs through self-MHC-mediated Src family kinase activation. [J Immunol. 178 \(4\): 2262-71.](#)

Further Reading

1. Ho, G.J. *et al.* (2005) Altered p59Fyn kinase expression accompanies disease progression in Alzheimer's disease: implications for its functional role. [Neurobiol Aging. 26 \(5\): 625-35.](#)
2. Lee, G. *et al.* (2004) Phosphorylation of tau by fyn: implications for Alzheimer's disease. [J Neurosci. 24 \(9\): 2304-12.](#)
3. Olszowy, M.W. *et al.* (1995) Comparison of p56lck and p59fyn protein expression in thymocyte subsets, peripheral T cells, NK cells, and lymphoid cell lines. [J Immunol. 155 \(9\): 4236-40.](#)
4. Zamoyska, R. *et al.* (2003) The influence of the src-family kinases, Lck and Fyn, on T cell differentiation, survival and activation. [Immunol Rev. 191: 107-18.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG2b (HCA038...)	FITC , HRP

Recommended Negative Controls

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

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