

Fyn (p59^{fyn}) Ab-1 (Clone 1S)

Mouse Monoclonal Antibody

Cat. #MS-339-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-339-PIABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-339-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #MS-339-PCS (5 Slides) (Positive Control for Histology)

Description: p59^{fyn} is a membrane-associated non-receptor protein tyrosine kinase that belongs to the Src-family of kinases. The unique N-terminal domain of p59^{fyn} interacts with the CD3 and ζ chains of the TcR. p59^{fyn} can bind other proteins (p82 and p116) through its SH2 and SH3 domains, which may act as substrates or regulators of fyn activity. p59^{fyn} is highly expressed in brain suggesting that it may have a role in the sensory nervous network and in myelination at early stages of CNS formation.

Mol. Wt. of Antigen: 59kDa

Epitope: aa 26-75

Species Reactivity: Human, Mouse, and Rat.
Others-not known.

Clone Designation: 1S

Ig Isotype / Light Chain: IgG₁ / κ

Immunogen: Recombinant protein corresponding to aa 1-206 of murine p59^{fyn} protein.

Applications and Suggested Dilutions:

- Kinase Assay (Not verified)
- Western Blotting (Not verified)
- Immunohistology (Formalin/paraffin)
(Ab 1-2µg/ml for 30 min at RT)
- * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (**NEOMARKERS'** Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Jurkat cells. Lymphoma.

Cellular Localization: Cytoplasmic

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As:

200µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Suggested References:

1. Bhat NR. Dev Neurosci, 1995, 17(5-6):267-84.
2. Fusaki N; et al. Int Immunol, 1994, 6:1245-55.
3. Guy CT; et al. Genes Dev, 1994, 8:23-32.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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