

Technical Data Sheet

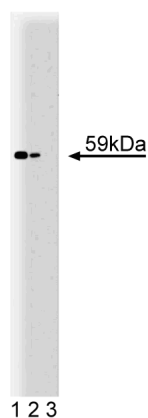
Purified Mouse Anti-Fyn

Product Information

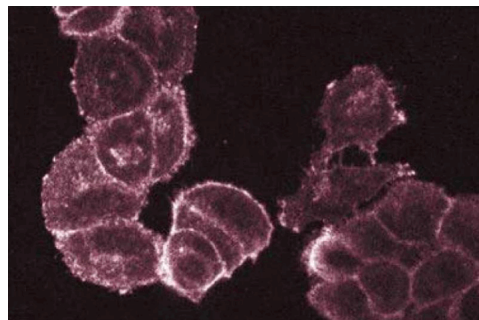
Material Number:	610163
Size:	50 µg
Concentration:	250 µg/ml
Clone:	25/Fyn
Immunogen:	Human fyn aa. 1-132
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat
Target MW:	59 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Stimulation of the T cell antigen receptor (TcR) results in protein tyrosine phosphorylation via non-receptor tyrosine kinases. The src-related p59[fyn] kinase is one such enzyme that associates with the TcR. Ligation of the TcR activates the protein kinase activity of p59[fyn] in various human T cells. Fyn interacts with the CD3-ζ chains through its N-terminal region. In turn, fyn binds other proteins through its SH2 and SH3 domains. These proteins (p82 and p116) may serve as substrates and/or mediators of fyn activity. A 72 kDa fyn-related protein binds to the TcR/CD3 complex in certain T cells. This protein, known as p72[fyn-R], is a variant of the fyn kinase and contains at least four novel Ser/Thr phosphorylation sites. These sites may make p72[fyn-R] less susceptible to the action of phosphatases than p59[fyn]. Like p59[fyn], p72[fyn-R] is constitutively associated with its receptor. The exact relationship between these two proteins is not yet clear. However, p72[fyn-R] immunoprecipitates with various antisera raised to either the N- or C-terminus of fyn. Similar to src and yes, fyn is highly expressed in brain. The localization of fyn in mouse brain and its interaction with myelin-associated glycoprotein (MAG) suggests that the fyn kinase has a role in the sensory network and in myelination during early stages of CNS formation.



Western blot analysis of fyn on Jurkat cell lysate. Lane 1: 1:250, lane 2: 1: 500, lane 3: 1:1000 dilution of anti-fyn.



Immunofluorescent staining of A431 cells with anti-fyn antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Derkinderen P, Toutant M, Kadare G, Ledent C, Parmentier M, Girault JA. Dual role of Fyn in the regulation of FAK+6,7 by cannabinoids in hippocampus. *J Biol Chem.* 2001; 276(41):38289-38296.(Clone-specific: Immunoprecipitation, Western blot)

Feuillet V, Semichon M, Restouin A. The distinct capacity of Fyn and Lck to phosphorylate Sam68 in T cells is essentially governed by SH3/SH2-catalytic domain linker interactions. *Oncogene.* 2002; 21(47):7205-7213.(Clone-specific: Immunofluorescence, Western blot)

Kawakami T, Kawakami Y, Aaronson SA, Robbins KC. Acquisition of transforming properties by FYN, a normal SRC-related human gene. 1988; 85(11):3870-3874.(Biology)

Zeng L, Si X, Yu WP, et al. PTP alpha regulates integrin-stimulated FAK autophosphorylation and cytoskeletal rearrangement in cell spreading and migration. *J Cell Biol.* 2003; 160(1):137-146.(Clone-specific: Immunoprecipitation, Western blot)