Technical Data Sheet

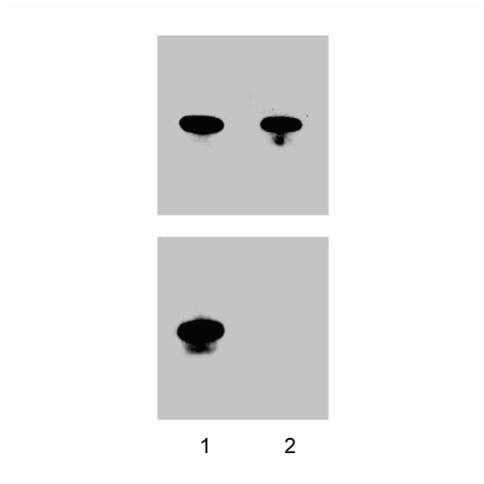
Purified Mouse Anti-Fyn (pY528)/c-Src(pY530)

Product Information

Material Number:	**612668**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	31/Fyn (pY528)/c-Src (pY530)
Immunogen:	Phosphorylated Human Fyn (Y528) Peptide
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human Tested in Development: Mouse
Target MW:	60 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

p59fyn is a member of the Src family of protein tyrosine kinases. Two isoforms of the protein have been identified, designated as FynB and Fyn T. Fyn B has been shown to be localized to the brain, whereas Fyn T associates with both B and T cells. Stimulation of the T cell antigen receptor (TcR) results in protein tyrosine phosphorylation via non-receptor tyrosine kinases. p59fyn kinase (Fyn T) associates with the TcR. Ligation of the TcR activates the protein kinase activity of p59fyn in various human T cells. Fyn interacts with the CD3-zeta 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. p59fyn kinase is tyrosine phosphorylated at two sites, Tyr-417 (autophosphorylation site), and Tyr-528 (negative regulatory site).



Western blot analysis for Fyn (pY528) / c-Src (pY530). *A431 cells (Human epithelial carcinoma; ATCC CRL-1555) were treated with 100 ng/ml EGF for 5 min and then either left untreated (lane 1) or treated (lane 2) with 50 µg/ml alkaline phosphatase for 30 min at 37°C. The top panel was probed with a mouse anti-Src antibody (Millipore/Upstate Cat. No. 05-184) and the bottom was probed with the mouse anti-Fyn (pY528) / c-Src (pY530) antibody at a 1:2500 dilution with a band observable at ~ 60 kDa.*

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot	Routinely Tested

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611448	A431 + EGF Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

BD Biosciences

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Cooke MP, Perlmutter RM. Expression of a novel form of the fyn proto-oncogene in hematopoietic cells. *New Biol.* 1989; 1(1):66-74.(Biology)

Grant SG, O'Dell TJ, Karl KA, Stein PL, Soriano P, Kandel ER. Impaired long-term potentiation, spatial learning, and hippocampal development in fyn mutant mice. *Science.* 1992; 258(5090):1903-1910.(Biology)

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)