

fish (L-15): sc-9947

BACKGROUND

Fish, a potential Src substrate, is a broadly expressed adaptor protein containing five SH3 domains and a phox homology (PX) domain. The Src family of protein tyrosine kinases act in signal transduction pathways. Src kinases vary in expression but are strongly regulated *in vivo*; catalytic activity is repressed by interacting with the SH3 domain. In Src-transformed fibroblasts and in normal cells treated with certain growth factors fish is tyrosine-phosphorylated. Treatment of cells with cytochalasin D results in rapid tyrosine phosphorylation of fish, along with activation of Src. Fish is likely to be involved in tyrosine kinase signaling and may have a role in cytoskeletal changes.

REFERENCES

1. Bolen, J.B., et al. 1992. The Src family of tyrosine protein kinases in hemopoietic signal transduction. *FASEB J.* 6: 3403-3409.
2. Erpel, T. and Courtneidge, S.A. 1995. Src family protein tyrosine kinases and cellular signal transduction pathways. *Curr. Opin. Cell Biol.* 7: 176-182.
3. Superti-Furga, G. and Courtneidge, S.A. 1995. Structure-function relationships in Src family and related protein tyrosine kinases. *Bioessays* 17: 321-330.
4. Dikic, I., et al. 1996. A role for Pyk2 and Src in linking G protein-coupled receptors with MAP kinase activation. *Nature* 383: 547-550.
5. Luttrell, L.M., et al. 1996. Role of c-Src tyrosine kinase in G protein-coupled receptor- and G_{βγ} subunit-mediated activation of mitogen-activated protein kinases. *J. Biol. Chem.* 271: 19443-19450.
6. Brown, M.T. and Cooper, J.A. 1996. Regulation, substrates and functions of Src. *Biochim. Biophys. Acta* 1287: 121-149.
7. Lock, P., et al. 1998. A new method for isolating tyrosine kinase substrates used to identify fish, an SH3 and PX domain-containing protein, and Src substrate. *EMBO J.* 17: 4346-4357.

CHROMOSOMAL LOCATION

Genetic locus: Sh3pxd2a (mouse) mapping to 19 C3.

SOURCE

fish (L-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of fish of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9947 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

fish (L-15) is recommended for detection of fish of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

fish (L-15) is also recommended for detection of fish in additional species, including equine, canine, bovine and porcine.

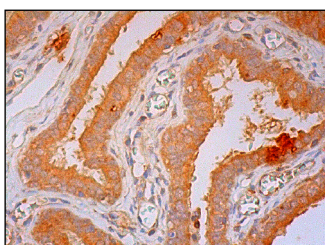
Suitable for use as control antibody for fish siRNA (m): sc-35377, fish shRNA Plasmid (m): sc-35377-SH and fish shRNA (m) Lentiviral Particles: sc-35377-V.

Molecular Weight of fish: 140 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



fish (L-15): sc-9947. Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing cytoplasmic staining of glandular cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

MONOS
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Try **fish (G-7): sc-376211**, our highly recommended monoclonal alternative to fish (L-15).