

Fes (5A11G5): sc-81706

BACKGROUND

Fes, a tyrosine kinase encoded by the proto-oncogene *c-Fes*, is expressed in macrophages and is thought to be involved in the regulation of myeloid differentiation. Fes has several characteristics typical of a cytoplasmic class of protein tyrosine kinases, including an SH2 domain and autophosphorylation capabilities. Fes has been shown to associate with IL-4 and several hematopoietic cytokine receptors, as well as with Bcr. Phosphorylation of Bcr by Fes induces the association of Bcr with the Ras guanine nucleotide exchange factor complex GRB2/Sos.

REFERENCES

- Hjermstad, S.J., et al. 1993. Regulation of the human *c-Fes* protein kinase (p93c-Fes) by its Src homology 2 domain and major autophosphorylation site (Tyr 713). *Oncogene* 8: 2283-2292.
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- Izuhara, K., et al. 1994. Interaction of the *c-Fes* proto-oncogene product with the interleukin-4 receptor. *J. Biol. Chem.* 269: 18623-18629.
- Maru, Y., et al. 1995. Tyrosine phosphorylation of Bcr by FPS/Fes protein-tyrosine kinases induces association of Bcr with GRB2/Sos. *Mol. Cell. Biol.* 15: 835-842.
- Rogers, J.A., et al. 1996. Autophosphorylation of the Fes tyrosine kinase. Evidence for an intermolecular mechanism involving two kinase domain tyrosine residues. *J. Biol. Chem.* 271: 17519-17525.
- Jucker, M., et al. 1997. The Fes protein-tyrosine kinase phosphorylates a subset of macrophage proteins that are involved in cell adhesion and cell-cell signaling. *J. Biol. Chem.* 272: 2104-2109.

CHROMOSOMAL LOCATION

Genetic locus: *FES* (human) mapping to 15q26.1.

SOURCE

Fes (5A11G5) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 613-822 of Fes of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

Fes (5A11G5) is recommended for detection of Fes of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Fes siRNA (h): sc-35365, Fes shRNA Plasmid (h): sc-35365-SH and Fes shRNA (h) Lentiviral Particles: sc-35365-V.

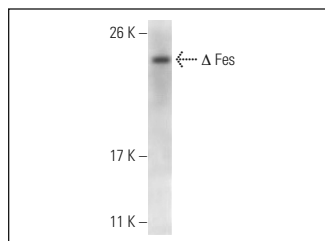
Molecular Weight of Fes: 93 kDa.

Positive Controls: human heart extract: sc-363763, THP-1 cell lysate: sc-2238 or HL-60 whole cell lysate: sc-2209.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Fes (5A11G5): sc-81706. Western blot analysis of truncated human recombinant Fes protein.

RESEARCH USE

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