

## Fes (C-19): sc-7670

### 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.

### CHROMOSOMAL LOCATION

Genetic locus: FES (human) mapping to 15q26.1; Fes (mouse) mapping to 7 D3.

### SOURCE

Fes (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Fes of human 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-7670 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.

### RESEARCH USE

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

### APPLICATIONS

Fes (C-19) is recommended for detection of Fes of mouse, rat and 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)], 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).

Fes (C-19) is also recommended for detection of Fes in additional species, including equine, canine, bovine, porcine and feline.

Suitable for use as control antibody for Fes siRNA (h): sc-35365, Fes siRNA (m): sc-35366, Fes shRNA Plasmid (h): sc-35365-SH, Fes shRNA Plasmid (m): sc-35366-SH, Fes shRNA (h) Lentiviral Particles: sc-35365-V and Fes shRNA (m) Lentiviral Particles: sc-35366-V.

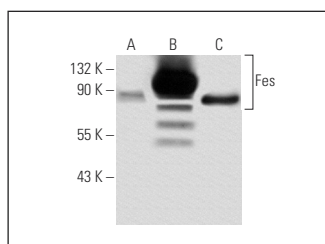
Molecular Weight of Fes: 93 kDa.

Positive Controls: Fes (h2): 293T Lysate : sc-159705, THP-1 cell lysate: sc-2238 or mouse heart extract: sc-2254.

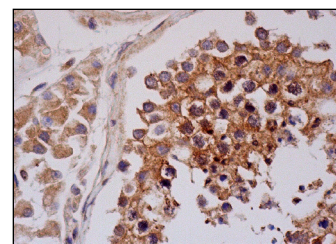
### RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

### DATA



Fes (C-19): sc-7670. Western blot analysis of Fes expression in non-transfected 293T: sc-117752 (A), human Fes transfected 293T: sc-159705 (B) and THP-1 (C) whole cell lysates.



Fes (C-19): sc-7670. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and membrane staining of cells in seminiferous ducts and cytoplasmic staining of Leydig cells.

### SELECT PRODUCT CITATIONS

1. Mitsui, N., et al. 2002. Involvement of Fes/Fps tyrosine kinase in semaphorin3A signaling. EMBO J. 21: 3274-3285.
2. Delfino, F.J., et al. 2006. A growth-suppressive function for the c-Fes protein-tyrosine kinase in colorectal cancer. J. Biol. Chem. 281: 8829-8835.
3. Delfino, F.J., et al. 2006. The KRAB-associated co-repressor KAP-1 is a coiled-coil binding partner, substrate and activator of the c-Fes protein tyrosine kinase. Biochem. J. 399: 141-150.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

**MONOS**  
Satisfaction  
Guaranteed

Try **Fes (D-9): sc-377179** or **Fes (E-1): sc-166371**, our highly recommended monoclonal alternatives to Fes (C-19).