

FAST (C-20): sc-1820

BACKGROUND

Fas, also referred to as CD95 or APO-1, is a type I transmembrane protein that plays a central role mediating viral immunity. TIA-1 and TIAR are two closely related proteins that possess three RRM (RNA recognition motifs), designated RRM 1, 2 and 3, respectively. Although both TIA-1 and TIAR are thought to function as mediators of apoptotic cell death, their specific roles in such pathways are unknown. Unlike TIA-1, which is found in the granules of cytotoxic lymphocytes, TIAR expression is limited to the nucleus and found in a much broader range of cells including, but not limited to, cells of hematopoietic origin. TIAR is translocated to the cytoplasm shortly after Fas ligation and this event immediately proceeds the onset of DNA fragmentation. A novel serine/threonine kinase that is activated as a result of Fas ligation, designated FAST (Fas-activated serine/threonine), shows kinase specificity towards both TIA-1 and TIAR. In unstimulated Jurkat cells, FAST resides in the cytoplasm as a highly phosphorylated protein and is quickly dephosphorylated and activated in response to stimulated Fas.

CHROMOSOMAL LOCATION

Genetic locus: FASTK (human) mapping to 7q36.1; Fastk (mouse) mapping to 5 A3.

SOURCE

FAST (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FAST 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-1820 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAST (C-20) is recommended for detection of FAST of mouse, rat, human and mink 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FAST (C-20) is also recommended for detection of FAST in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FAST siRNA (h): sc-35361, FAST siRNA (m): sc-35362, FAST shRNA Plasmid (h): sc-35361-SH, FAST shRNA Plasmid (m): sc-35362-SH, FAST shRNA (h) Lentiviral Particles: sc-35361-V and FAST shRNA (m) Lentiviral Particles: sc-35362-V.

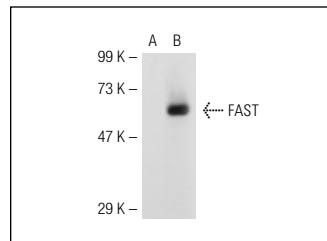
Molecular Weight of FAST: 56 kDa.

Positive Controls: Mv 1 Lu whole cell lysate: sc-3810 or FAST (m): 293T Lysate: sc-120197.

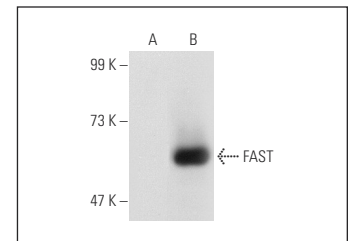
RECOMMENDED SECONDARY REAGENTS

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.

DATA



FAST (C-20): sc-1820. Western blot analysis of FAST expression in non-transfected: sc-117752 (A) and mouse FAST transfected: sc-120197 (B) 293T whole cell lysates.



FAST (C-20): sc-1820. Western blot analysis of FAST expression in non-transfected: sc-117752 (A) and mouse FAST transfected: sc-120197 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Izquierdo, J.M., et al. 2007. FAS-activated serine/threonine kinase (FAST K) synergizes with TIA-1/TIAR proteins to regulate FAS alternative splicing. *J. Biol. Chem.* 282: 1539-1543.

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.

PROTOCOLS

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



Try **FAST (B-9): sc-365125**, our highly recommended monoclonal alternative to FAST (C-20).