

# HSPC117/FAAP (N-14): sc-86491

## BACKGROUND

HSPC117, also known as C22orf28, is a 505 amino acid protein that is encoded by a gene which maps to human chromosome 22. A highly homologous protein identified in rodents, FAAP (focal adhesion associated protein), encoded by murine D10Wsu52e gene, has been suggested to play a role in regulating cell adhesion dynamics. Chromosome 22 houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein BCR-Abl, a potent cell proliferation activator found in several types of leukemias.

## CHROMOSOMAL LOCATION

Genetic locus: C22orf28 (human) mapping to 22q12.3; D10Wsu52e (mouse) mapping to 10 C1.

## SOURCE

HSPC117/FAAP (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of HSPC117 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86491 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

HSPC117/FAAP (N-14) is recommended for detection of HSPC117 of human origin and FAAP of mouse and rat 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); non cross-reactive with HSPC016, HSPC038, and HSPC300.

HSPC117/FAAP (N-14) is also recommended for detection of HSPC117 and FAAP in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for HSPC117 siRNA (h): sc-75311, FAAP siRNA (m): sc-142776, HSPC117 shRNA Plasmid (h): sc-75311-SH, FAAP shRNA Plasmid (m): sc-142776-SH, HSPC117 shRNA (h) Lentiviral Particles: sc-75311-V and FAAP shRNA (m) Lentiviral Particles: sc-142776-V.

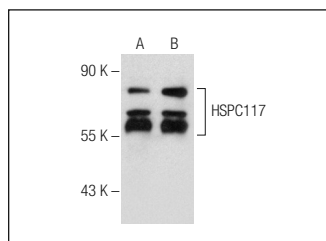
Molecular Weight of HSPC117/FAAP: 55 kDa.

Positive Controls: HSPC117 (h): 293T Lysate: sc-369180.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DAT



HSPC117/FAAP (N-14): sc-86491. Western blot analysis of HSPC117 expression in non-transfected: sc-117752 (A) and human HSPC117 transfected: sc-369180 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

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

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Try **HSPC117 (C-3): sc-393966**, our highly recommended monoclonal alternative to HSPC117/FAAP (N-14).