

PSTPIP1 (H-94): sc-135221

BACKGROUND

PSTPIP1 (proline-serine-threonine phosphatase interacting protein 1), also known as H-PIP, PAPAS, CD2BP1, PSTPIP, CD2BP1L or CD2BP1S, is a 416 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one SH3 domain and one FCH domain. Expressed at high levels in T cells and spleen and present at lower levels in thymus, lung, placenta and small intestine, PSTPIP1 interacts with CD2AP, BDP1 and c-Abl and is involved in the regulation of the actin cytoskeleton, possibly functioning as a scaffold protein that may promote actin polymerization. Defects in the gene encoding PSTPIP1 are the cause of PAPA syndrome (PAPAS), an autosomal dominant disease characterized by recurring inflammatory episodes that affect skin and joint tissue. Multiple isoforms of PSTPIP1 exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: PSTPIP1 (human) mapping to 15q24.3; Pstpip1 (mouse) mapping to 9 B.

SOURCE

PSTPIP1 (H-94) is a rabbit polyclonal antibody raised against amino acids 1-94 mapping at the N-terminus of PSTPIP1 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.

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

PSTPIP1 (H-94) is recommended for detection of PSTPIP1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PSTPIP1 (H-94) is also recommended for detection of PSTPIP1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for PSTPIP1 siRNA (h): sc-90246, PSTPIP1 siRNA (m): sc-106460, PSTPIP1 shRNA Plasmid (h): sc-90246-SH, PSTPIP1 shRNA Plasmid (m): sc-106460-SH, PSTPIP1 shRNA (h) Lentiviral Particles: sc-90246-V and PSTPIP1 shRNA (m) Lentiviral Particles: sc-106460-V.

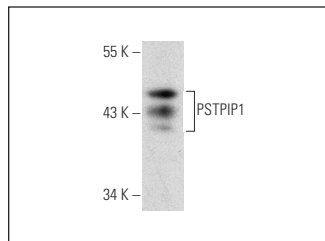
Molecular Weight of PSTPIP1: 50 kDa.

Positive Controls: mouse thymus extract: sc-2406.

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.

DATA



PSTPIP1 (H-94): sc-135221. Western blot analysis of PSTPIP1 expression in mouse thymus tissue extract.

PROTOCOLS

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


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Try **PSTPIP1 (B-10): sc-390727**, our highly recommended monoclonal alternative to PSTPIP1 (H-94).