**BACKGROUND**

PSTPIP2 (proline-serine-threonine phosphatase interacting protein 2), also known as MAYP, is a 334 amino acid peripheral membrane protein that is widely expressed and contains an FCH (Fes/CIP4 homology) domain. Tyrosine-phosphorylated in macrophages, PSTPIP2 is a major F-Actin-associated protein that may participate in regulating macrophage colony stimulating factor (M-CSF-induced) reorganization of the Actin cytoskeleton. Mutations in the gene encoding PSTPIP2 may be the cause of SAPHO syndrome (synovitis, acne, pustulosis, hyperostosis and osteitis), a rare inflammatory disorder that mainly affects bone, skin, and joints. Existing as 2 alternatively spliced isoforms, PSTPIP2 is encoded by a gene located on human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PSTPIP2 (human) mapping to 18q21.1; Pstpip2 (mouse) mapping to 18 E3.

**SOURCE**

PSTPIP2 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PSTPIP2 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-83014 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

PSTPIP2 (N-15) is recommended for detection of PSTPIP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 family member PSTPIP1.

PSTPIP2 (N-15) is also recommended for detection of PSTPIP2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PSTPIP2 siRNA (h): sc-76282, PSTPIP2 siRNA (m): sc-76283, PSTPIP2 shRNA Plasmid (h): sc-76282-SH, PSTPIP2 shRNA Plasmid (m): sc-76283-SH, PSTPIP2 shRNA Lentiviral Particles: sc-76282-V and PSTPIP2 shRNA (m) Lentiviral Particles: sc-76283-V.

Molecular Weight of PSTPIP2: 37 kDa.

Positive Controls: Human platelet whole cell lysate: sc-363773.

**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) 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.

**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.