**BACKGROUND**

Phosphoribosylpyrophosphate (PRPP) is an essential substrate and critical control factor for the synthesis of purine and pyrimidine nucleotides, histidine, tryptophan and NAD. The formation of phosphoribosylpyrophosphate from ATP and ribose-5-phosphate is catalyzed by the enzyme phosphoribosylpyrophosphate synthetase (PRS), which exists as a complex with two catalytic subunits, PRPS1 and PRPS2, and two associated subunits, PRPSAP1 and PRPSAP2. PRPSAP2 (phosphoribosyl pyrophosphate synthetase-associated protein 2), also known as PAP39, is a 356 amino acid ubiquitously expressed protein belonging to the ribose-phosphate pyrophosphokinase family. PRPSAP1 may play a regulatory role in 5-phosphoribose 1-diphosphate synthesis and is encoded by a gene mapping to human chromosome 17q25.1. PRPSAP2 (phosphoribosyl pyrophosphate synthetase-associated protein 2), also known as PAP41, is a 369 amino acid protein that is ubiquitously expressed and interacts with PRPS1 and PRPS2.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PRPSAP2 (human) mapping to 17p11.2; Prpsap2 (mouse) mapping to 11 B2.

**SOURCE**

PRPSAP2 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PRPSAP2 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-136813 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

PRPSAP2 (G-13) is recommended for detection of PRPSAP2 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); non-cross-reactive with PRPSAP1.

PRPSAP2 (G-13) is also recommended for detection of PRPSAP2 in additional species, including equine, canine and avian.

Suitable for use as control antibody for PRPSAP2 siRNA (h): sc-94203, PRPSAP2 siRNA (m): sc-152504, PRPSAP2 shRNA Plasmid (h): sc-94203-Sh, PRPSAP2 shRNA Plasmid (m): sc-152504-Sh, PRPSAP2 shRNA (h) Lentiviral Particles: sc-94203-V and PRPSAP2 shRNA (m) Lentiviral Particles: sc-152504-V.

Molecular Weight of PRPSAP2: 41 kDa.

Positive Controls: PRPSAP2 (m): 293T Lysate: sc-125860.

**DATA**

**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.