

PRPSAP2 (N-12): sc-136814

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. PRPSAP1 (phosphoribosyl pyrophosphate synthetase-associated protein 1), 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

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CHROMOSOMAL LOCATION

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

SOURCE

PRPSAP2 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-136814 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRPSAP2 (N-12) 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.

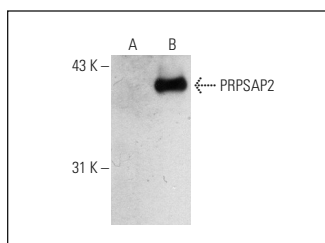
PRPSAP2 (N-12) is also recommended for detection of PRPSAP2 in additional species, including equine and canine.

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



PRPSAP2 (N-12): sc-136814. Western blot analysis of PRPSAP2 expression in non-transfected: sc-117752 (A) and mouse PRPSAP2 transfected: sc-125860 (B) 293T whole cell lysates.

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.