

p15 (PAF) (P-15): sc-67922

BACKGROUND

p15 (PAF), also known as PAF, L5, OEATC1 (overexpressed in anaplastic thyroid carcinoma 1) or NS5ATP9, is a 111 amino acid protein that localizes to both the nucleus and the mitochondria. Highly expressed in colon and thymus with lower expression in liver, ovary, kidney, spleen, placenta and small intestine, p15 (PAF) interacts with the nuclear antigen PCNA and, through this interaction, is thought to protect cells from UV-induced cell death. The association of p15 (PAF) and PCNA is enhanced by UV treatment and is facilitated by the binding of ING1, a tumor suppressor that can induce apoptosis. Due to its ability to bind the apoptotic factor ING1 and subsequently decrease the rate of cell death, high levels of p15 (PAF) are found in several types of tumors, including esophageal and pancreatic cancer, suggesting an important role for p15 (PAF) in tumor progression.

REFERENCES

1. Yu, P., et al. 2001. p15(PAF), a novel PCNA associated factor with increased expression in tumor tissues. *Oncogene* 20: 484-489.
2. Mizutani, K., et al. 2005. Overexpressed in anaplastic thyroid carcinoma-1 (OEATC-1) as a novel gene responsible for anaplastic thyroid carcinoma. *Cancer* 103: 1785-1790.
3. Guo, M., et al. 2006. KIAA0101 (OEACT-1), an expressionally downregulated and growth-inhibitory gene in human hepatocellular carcinoma. *BMC Cancer* 6: 109.
4. Simpson, F., et al. 2006. The PCNA-associated factor KIAA0101/ p15 (PAF) binds the potential tumor suppressor product p33ING1b. *Exp. Cell Res.* 312: 73-85.
5. Yuan, R.H., et al. 2007. Overexpression of KIAA0101 predicts high stage, early tumor recurrence, and poor prognosis of hepatocellular carcinoma. *Clin. Cancer Res.* 13: 5368-5376.
6. Hosokawa, M., et al. 2007. Oncogenic role of KIAA0101 interacting with proliferating cell nuclear antigen in pancreatic cancer. *Cancer Res.* 67: 2568-2576.

CHROMOSOMAL LOCATION

Genetic locus: 2810417H13Rik (mouse) mapping to 9 C.

SOURCE

p15 (PAF) (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of p15 (PAF) of mouse 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-67922 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

p15 (PAF) (P-15) is recommended for detection of p15 (PAF) 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).

Suitable for use as control antibody for p15 (PAF) siRNA (m): sc-62736, p15 (PAF) shRNA Plasmid (m): sc-62736-SH and p15 (PAF) shRNA (m) Lentiviral Particles: sc-62736-V.

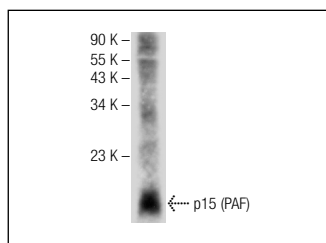
Molecular Weight of p15: 15 kDa.

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 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



p15 (PAF) (P-15): sc-67922. Western blot analysis of p15 (PAF) expression in mouse thymus tissue extract.

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.

MONOS
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Try **p15 (PAF) (G-11): sc-390515**, our highly recommended monoclonal alternative to p15 (PAF) (P-15).