

# PSAP (H-300): sc-292968

## BACKGROUND

Puromycin-sensitive aminopeptidase (PSA or PSAP) is a 100kDa zinc metallopeptidase which degrades neuropeptides by removing amino acid residues from the amino-terminus. The protein is the most abundant aminopeptidase in the brain, however it is not exclusive to that organ. It is localized primarily in the cytoplasm, and plays a role in the metabolism of neuropeptides in nerve terminals and synaptic clefts. The human PSA gene maps to chromosome 17q 21.32.

## REFERENCES

- Hui, M., et al. 1995. Changes in puromycin-sensitive aminopeptidases in postmortem schizophrenic brain regions. *Neurochem. Int.* 27: 433-441.
- Constam, D.B., et al. 1995. Puromycin-sensitive aminopeptidase. Sequence analysis, expression, and functional characterization. *J. Biol. Chem.* 270: 26931-26939.

## CHROMOSOMAL LOCATION

Genetic locus: NPEPPS (human) mapping to 17q21.32; Npepps (mouse) mapping to 11 D.

## SOURCE

PSAP (H-300) is a rabbit polyclonal antibody raised against amino acids 361-660 mapping within an internal region of PSAP 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.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

PSAP (H-300) is recommended for detection of PSAP 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).

PSAP (H-300) is also recommended for detection of PSAP in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PSAP siRNA (h): sc-44046, PSAP siRNA (m): sc-152533, PSAP shRNA Plasmid (h): sc-44046-SH, PSAP shRNA Plasmid (m): sc-152533-SH, PSAP shRNA (h) Lentiviral Particles: sc-44046-V and PSAP shRNA (m) Lentiviral Particles: sc-152533-V.

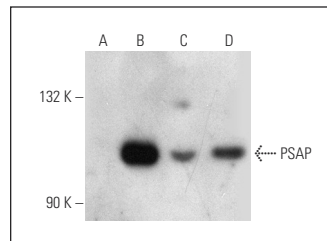
Molecular Weight of PSAP: 103 kDa.

Positive Controls: PSAP (h): 293T Lysate: sc-112423, PSAP (m): 293T Lysate: sc-125862 or HeLa whole cell lysate: sc-2200.

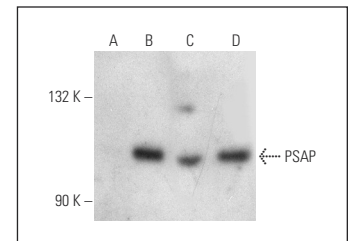
## RECOMMENDED SECONDARY REAGENTS

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



PSAP (H-300): sc-292968. Western blot analysis of PSAP expression in non-transfected 293T: sc-117752 (A), mouse PSAP transfected 293T: sc-125862 (B), HeLa (C) and MCF7 (D) whole cell lysates



PSAP (H-300): sc-292968. Western blot analysis of PSAP expression in non-transfected 293T: sc-117752 (A), human PSAP transfected 293T: sc-112423 (B), HeLa (C) and MCF7 (D) 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **PSAP (E-5): sc-390184**, our highly recommended monoclonal alternative to PSAP (H-300).