PSAP (E-5): sc-390184

**BACKGROUND**

Puromycin-sensitive aminopeptidase (PSA or PSAP) is a 100 kDa zinc metallopeptidase which degrades endogenous peptides by removing amino acid residues from the amino-terminus of the protein. The enzyme is the most abundant zinc-bound 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 17q21.32.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

PSAP (E-5) is a mouse monoclonal antibody raised against amino acids 381-660 mapping within an internal region of PSAP of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PSAP (E-5) is available conjugated to agarose (sc-390184 AC), 500 µg/0.25 ml agarose in 1 ml, for ITP; to HRP (sc-390184 HRP), 200 µg/ml, for WB, IHC/P and ELISA; to either phycocyanin (sc-390184 PE) fluorescein (sc-390184 FITC), Alexa Fluor® 488 (sc-390184 AF488), Alexa Fluor® 546 (sc-390184 AF546), Alexa Fluor® 594 (sc-390184 AF594) or Alexa Fluor® 647 (sc-390184 AF647), 200 µg/ml, for WB (RGB), IF, IHC/P and FCM; and to either Alexa Fluor® 680 (sc-390184 AF680) or Alexa Fluor® 790 (sc-390184 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

PSAP (E-5) is recommended for detection of PSAP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 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: HeLa whole cell lysate: sc-2200, MCF7 whole cell lysate: sc-2206 or Hep G2 cell lysate: sc-2227.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

| PSAP (E-5): sc-390184 | Western blot analysis of PSAP expression in Hep G2 (A), HeLa (B) and MCF7 (C) whole cell lysates.
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<tr>
<td>PSAP (E-5): sc-390184</td>
<td>Western blot analysis of PSAP expression in human hippocampus tissue extract (A) and Hep G2 whole cell lysate (B).</td>
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**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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