

AP31817PU-N**Polyclonal Antibody to ACP3 / Prostatic acid phosphatase (Pain System Marker) - Aff - Purified**

Alternate names:	ACP3, PAP, PSAP, Prostate acid phosphatase
Quantity:	0.2 ml
Concentration:	10 mg IgY/ml (based on absorbance at 280 nm)
Background:	Mouse PAP is a 43,698 dalton protein (381 amino acids; NCBI accession number AAF23171) associated with prostatic cancer cells, as well as primary afferent sensory neurons involved in the pain pathway. This protein is an enzyme that dephosphorylates adenosine monophosphate (AMP) in the dorsal horn gray matter of the spinal cord, generating free adenosine. Injections of PAP into the dorsal horn of experimental mice has been shown to decrease pain perception by acting in an antinociceptive, antihyperalgesic, and antiallodynic fashion.
Uniprot ID:	Q8CE08
NCBI:	NP_062781
GeneID:	56318
Host / Isotype:	Chicken / Ig
Immunogen:	Recombinant Mouse PAP protein was expressed using a baculoviral-delivery system. Preparation: After repeated injections, immune eggs were collected from laying hens, from which IgY antibody were prepared ("anti-PAP IgY fraction"). Some of this antibody was further purified using an agarose matrix to which the PAP protein was covalently attached ("Affinity-purified anti-PAP"). The final preparation in the accompanying vial contains 10 mg/ml of the "anti-PAP IgY fraction" supplemented with 20 mg/ml of the "affinity-purified anti-PAP" plus 50% (v/v) Glycerol (to prevent freezing at -20°C). Finally, this antibody preparation was filter-sterilized (0.45 µm) and 200 µl aliquots prepared.
Format:	State: Liquid purified (filter sterilized) IgY fraction. Purification: Affinity Chromatography using a peptide column. Buffer System: 10mM PBS, pH 7.2 containing 1% BSA as stabilizer and 0.02% Sodium Azide as preservative.
Applications:	Immunocytochemistry. Immunohistochemistry (1/500-1/1000). Quality Control: Antibodies were analyzed using immunohistochemistry with tissue sections through a 10%-formalin fixed adult Mouse. Sections were examined for PAP-positive dorsal root ganglion sensory neurons. Fluorescein-labeled Goat anti-Chicken IgY (1/500 dilution, Cat.-No AP31795FC-N) used as the secondary reagent. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes Mouse Prostatic Acid Phosphatase (PAP). Species: Mouse. Other species not tested.

Storage: Store the antibody undiluted in the dark at 2-8°C.
Shelf life: one year from despatch.

Pictures: Tissue section through an adult Mouse brain showing PAP (red fluorescence) in the superficial laminae of the adult Mouse spinal cord dorsal horn gray matter.

