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PSA Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6563b

Specification

PSA Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P55786

PSA Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 9520

Other Names
Puromycin-sensitive aminopeptidase, PSA, Cytosol alanyl aminopeptidase, AAP-S, NPEPPS, PSA

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6563b was selected from the C-term region of human PSA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PSA Antibody (C-term) Blocking Peptide - Protein Information

Name NPEPPS

Synonyms PSA

Function
Aminopeptidase with broad substrate specificity for several peptides. Involved in proteolytic events essential for cell growth and viability. May act as regulator of neuropeptide activity. Plays a role in the antigen-processing pathway for MHC class I molecules. Involved in the N-terminal trimming of cytotoxic T-cell epitope precursors. Digests the poly-Q peptides found in many cellular proteins. Digests tau from normal brain more efficiently than tau from Alzheimer disease brain.

Cellular Location
Cytoplasm, cytosol. Nucleus

Tissue Location

Detected in liver, epithelium of renal tubules, epithelium of small and large intestine, gastric epithelial cells, and alveoli of the lung (at protein level).

PSA Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PSA Antibody (C-term) Blocking Peptide - Images

PSA Antibody (C-term) Blocking Peptide - Background

PSA is the puromycin-sensitive aminopeptidase, a zinc metallopeptidase which hydrolyzes amino acids from the N-terminus of its substrate. The protein has been localized to both the cytoplasm and to cellular membranes. This enzyme degrades enkaphalins in the brain, and studies in mouse suggest that it is involved in proteolytic events regulating the cell cycle.

PSA Antibody (C-term) Blocking Peptide - References

Thompson,M.W., Peptides 24 (9), 1359-1365 (2003)