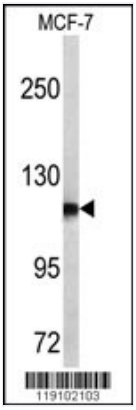
NPEPPS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSA (NPEPPS), Polyclonal Antibody
Full Product Name	PSA Antibody (C-term)
Product Gene Name	anti-NPEPPS antibody
Product Synonym Names	Puromycin-sensitive aminopeptidase; PSA; Cytosol alanyl aminopeptidase; AAP-S; NPEPPS; PSA
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This PSA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 709-737 amino acids from the C-terminal region of human PSA.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	PSA peptide (MBS9226158) is used for blocking the activity of PSA antibody (MBS9202448)
Molecular Weight	103276
Immunogen Sequence Positions	709-737
OMIM	606793
3D Structure	ModBase 3D Structure for P55786
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-NPEPPS antibody	Neuroscience
Applications Tested/Suitable for anti-NPEPPS antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-NPEPPS antibody	WB~~1:1000
Related Product Information for anti-NPEPPS antibody	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.
Product References and Citations for anti-NPEPPS antibody	Thompson,M.W., Peptides 24 (9), 1359-1365 (2003)

Other Notes	Small volumes of anti-NPEPPS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NPEPPS purchase	MBS9202448 is an antibody targeting NPEPPS. Also known as PSA Antibody (C-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NPEPPS antibody
Western blot analysis of PSA antibody (C-term) in MCF-7 cell line lysates (35ug/lane). PSA (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-NPEPPS antibody
PSA Antibody (C-term) IHC analysis in formalin fixed and paraffin embedded human Skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PSA Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPEPPS. It may not necessarily be applicable to this product.

NCBI GI #	158937236
NCBI GeneID	9520
NCBI Accession #	NP_006301.3
UniProt Primary Accession #	P55786
UniProt Secondary Accession #	Q6P145; Q9NP16; Q9UEM2; B7Z463
UniProt Related Accession #	P55786
GenBank Nucleotide #	NM_006310.3
NCBI Official Full Name	puromycin-sensitive aminopeptidase
NCBI Official Synonym Full Names	aminopeptidase puromycin sensitive
NCBI Official Symbol	NPEPPS
NCBI Official Synonym Symbols	PSA; AAP-S; MP100
UniProt Protein Name	Puromycin-sensitive aminopeptidase
UniProt Synonym Protein Names	Cytosol alanyl aminopeptidase; AAP-S
Protein Family	PsaJ-like protein asl3190
UniProt Gene Name	NPEPPS
UniProt Synonym Gene Names	PSA; PSA; AAP-S
UniProt Entry Name	PSA_HUMAN
NCBI Protein Information	puromycin-sensitive aminopeptidase

NCBI Summary for NPEPPS	This gene encodes 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. [provided by RefSeq, Jul 2008]
UniProt Comments for NPEPPS	NPEPPS: 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. Belongs to the peptidase M1 family. Protein type: Protease; EC 3.4.11.14 Chromosomal Location of Human Ortholog: 17q21 Cellular Component: cytosol; nucleus Molecular Function: zinc ion binding; metallopeptidase activity; aminopeptidase activity Biological Process: antigen processing and presentation of peptide antigen via MHC class I; protein polyubiquitination; proteolysis
Research Articles on NPEPPS	**1.** MiR-614 inhibited cell invasion and proliferationa targeting PSA in lung cancer cells, PGCL3
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