

ASPEP

Cat.No. 296-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 195 to 213 from mouse AS (UniProt Id: Q9Z2W0)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	296 003
Remarks	This control peptide consists of the synthetic peptide (aa 195-213 of mouse ASPEP) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Aspartyl aminopeptidase (ASPEP), also referred to as DAP and DNPEP, is an ubiquitously expressed protein that probably plays an important role in intracellular protein and peptide metabolism.

Selected General References

Insights into substrate specificity and metal activation of mammalian tetrahedral aspartyl aminopeptidase.
Chen Y, Farquhar ER, Chance MR, Palczewski K, Kiser PD
The Journal of biological chemistry (2012) 287(16): 13356-70.

Chondrocyte-specific microRNA-140 regulates endochondral bone development and targets Dnpep to modulate bone morphogenetic protein signaling.
Nakamura Y, Inloes JB, Katagiri T, Kobayashi T
Molecular and cellular biology (2011) 31(14): 3019-28.

Aspartyl aminopeptidase, encoded by an evolutionarily conserved syntenic gene, is colocalized with its cluster in secretory granules of pancreatic islet cells.
Cai WW, Wang L, Chen Y
Bioscience, biotechnology, and biochemistry (2010) 74(10): 2050-5.

Purification, characterization, and cloning of a cytosolic aspartyl aminopeptidase.
Wilk S, Wilk E, Magnusson RP
The Journal of biological chemistry (1998) 273(26): 15961-70.