

DPP8 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6506a**Specification**

DPP8 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q6V1X1](#)**DPP8 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54878**Other Names**

Dipeptidyl peptidase 8, DP8, Dipeptidyl peptidase IV-related protein 1, DPRP-1, Dipeptidyl peptidase VIII, DPP VIII, Prolyl dipeptidase DPP8, DPP8, DPRP1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6506a](/products/AP6506a) was selected from the N-term region of human DPP8. 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.

DPP8 Antibody (N-term) Blocking Peptide - Protein Information**Name** DPP8 {ECO:0000303|PubMed:11012666, ECO:0000312|HGNC:HGNC:16490}**Function**

Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2 (PubMed:[11012666](http://www.uniprot.org/citations/11012666), PubMed:[12534281](http://www.uniprot.org/citations/12534281), PubMed:[12662155](http://www.uniprot.org/citations/12662155), PubMed:[15039077](http://www.uniprot.org/citations/15039077), PubMed:[15664838](http://www.uniprot.org/citations/15664838), PubMed:[20536396](http://www.uniprot.org/citations/20536396), PubMed:[29382749](http://www.uniprot.org/citations/29382749)). Acts as a key inhibitor of caspase-1-dependent monocyte and macrophage pyroptosis in resting cells by preventing activation of NLRP1 and CARD8 (PubMed:[27820798](http://www.uniprot.org/citations/27820798), PubMed:

href="http://www.uniprot.org/citations/29967349" target="_blank">29967349, PubMed:32796818). Sequesters the cleaved C-terminal part of NLRP1 and CARD8, which respectively constitute the active part of the NLRP1 and CARD8 inflammasomes, in a ternary complex, thereby preventing their oligomerization and activation (PubMed:34019797, PubMed:33731929, PubMed:33731932). The dipeptidyl peptidase activity is required to suppress NLRP1 and CARD8; however, neither NLRP1 nor CARD8 are bona fide substrates of DPP8, suggesting the existence of substrate(s) required for NLRP1 and CARD8 inhibition (By similarity).

Cellular Location

Cytoplasm

Tissue Location

Ubiquitously expressed, with highest levels in testis, placenta, prostate, muscle and brain

DPP8 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DPP8 Antibody (N-term) Blocking Peptide - Images**DPP8 Antibody (N-term) Blocking Peptide - Background**

DPP8 is a member of the peptidase S9B family, a small family of dipeptidyl peptidases that are able to cleave peptide substrates at a prolyl bond. The protein shares similarity with dipeptidyl peptidase IV in that it is ubiquitously expressed, and hydrolyzes the same substrates. These similarities suggest that, like dipeptidyl peptidase IV, this protein may play a role in T-cell activation and immune function.

DPP8 Antibody (N-term) Blocking Peptide - References

Ajami,K., FEBS Lett. 582 (5), 819-825 (2008)Lee,H.J., J. Biol. Chem. 281 (50), 38653-38662 (2006)