

[31525884](http://www.uniprot.org/citations/31525884), PubMed: [32796818](http://www.uniprot.org/citations/32796818), PubMed: [36112693](http://www.uniprot.org/citations/36112693), PubMed: [36357533](http://www.uniprot.org/citations/36357533)). 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: [33731929](http://www.uniprot.org/citations/33731929), PubMed: [33731932](http://www.uniprot.org/citations/33731932), PubMed: [34019797](http://www.uniprot.org/citations/34019797)). The dipeptidyl peptidase activity is required to suppress NLRP1 and CARD8; however, neither NLRP1 nor CARD8 are bona fide substrates of DPP9, suggesting the existence of substrate(s) required for NLRP1 and CARD8 inhibition (PubMed: [33731929](http://www.uniprot.org/citations/33731929)).

Cellular Location

[Isoform 1]: Cytoplasm, cytosol

Tissue Location

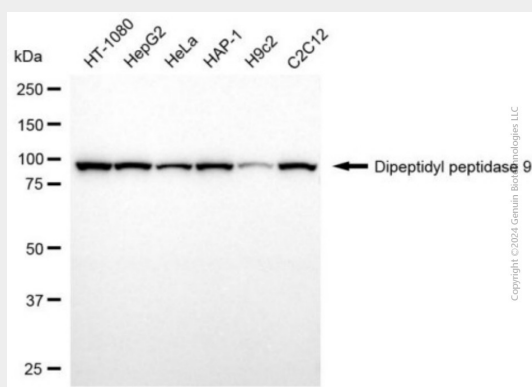
Ubiquitously expressed, with highest levels in liver, heart and muscle, and lowest levels in brain

KD-Validated Anti-DPP9 Mouse Monoclonal Antibody - Protocols

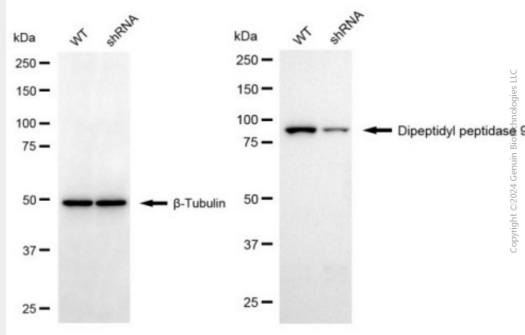
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

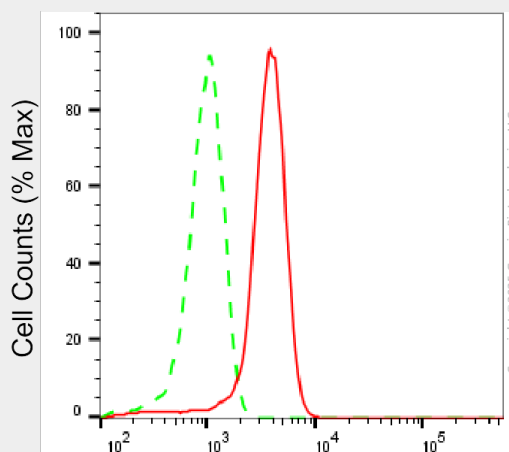
KD-Validated Anti-DPP9 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-dipeptidyl peptidase 9 antibody (Cat#AGI2031). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-dipeptidyl peptidase 9 antibody (Cat#AGI2031, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-dipeptidyl peptidase 9 antibody (Cat#AGI2031). Dipeptidyl peptidase 9 expression in wild type (WT) and dipeptidyl peptidase 9 (DPP9) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-dipeptidyl peptidase 9 antibody (Cat#AGI2031, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Dipeptidyl peptidase 9-Alexa Fluor® 647

Flow cytometric analysis of Dipeptidyl peptidase 9 expression in HepG2 cells using anti-Dipeptidyl peptidase 9 antibody (Cat#AGI2031, 1:1,000). Green, isotype control; red, Dipeptidyl peptidase 9.