

KD-Validated Anti-DPP8 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI2033**Specification****KD-Validated Anti-DPP8 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q6V1X1
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 103 kDa, observed, 103 kDa
Gene Name	KDa
Aliases	DPP8 DPP8; Dipeptidyl Peptidase 8; DPRP1; DP8; Dipeptidyl Peptidase VIII; Prolyl Dipeptidase DPP8; MSTP141; Dipeptidyl Peptidase IV-Related Protein 1; FLJ14920; FLJ20283; MGC26191; DPP VIII; DPRP-1; Dipeptidyl Peptidase IV-Related Protein-1; Dipeptidyl-Peptidase 8; Dipeptidylpeptidase 8; EC 3.4.14.5; MSTP097; MSTP135; MST097
Immunogen	Recombinant protein of human DPP8

KD-Validated Anti-DPP8 Mouse Monoclonal Antibody - Additional Information

Gene ID	54878
Other Names	Dipeptidyl peptidase 8, DP8, 3.4.14.5, Dipeptidyl peptidase IV-related protein 1, DPRP-1, Dipeptidyl peptidase VIII, DPP VIII, Prolyl dipeptidase DPP8, DPP8 {ECO:0000303 PubMed:11012666, ECO:0000312 HGNC:HGNC:16490}

KD-Validated Anti-DPP8 Mouse Monoclonal Antibody - 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, PubMed:12534281, PubMed:12662155, PubMed:15039077, PubMed:15664838, PubMed:20536396, PubMed: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:11012666).

href="http://www.uniprot.org/citations/27820798" target="_blank">27820798, PubMed: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:33731929, PubMed:33731932, PubMed:34019797). 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

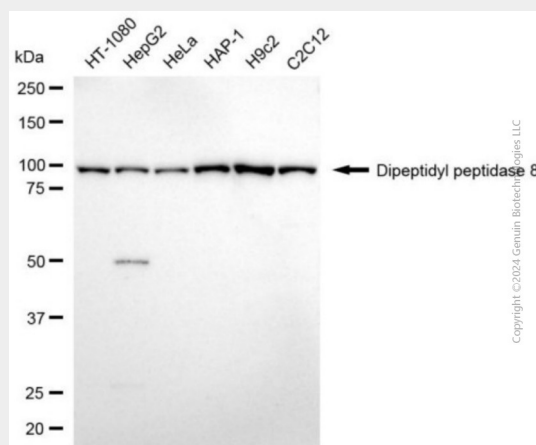
Ubiquitously expressed, with highest levels in testis, placenta, prostate, muscle and brain

KD-Validated Anti-DPP8 Mouse Monoclonal Antibody - Protocols

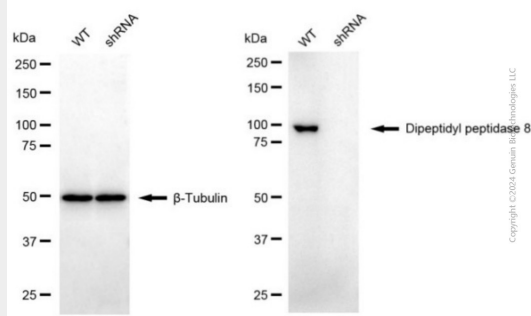
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-DPP8 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-dipeptidyl peptidase 8 antibody (Cat#AGI2033). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-dipeptidyl peptidase 8 antibody (Cat#AGI2033, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-dipeptidyl peptidase 8 antibody (Cat#AGI2033). Dipeptidyl peptidase 8 expression in wild type (WT) and dipeptidyl peptidase 8 (DPP8) 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 8 antibody (Cat#AGI2033, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.