

Product Name: KD-Validated DPP9 Mouse Monoclonal Antibody**Catalog #: KVA00568**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 98.3kDa

Antigen Information

Gene Name	DPP9
Alternative Names	DPP9; Dipeptidyl Peptidase 9; Dipeptidyl Peptidase-Like Protein 9; Dipeptidyl Peptidase IX; DPP IX; DPRP-2; DPLP9; DPRP2; DP9; Dipeptidyl Peptidase IV-Related Protein-2; Dipeptidyl Peptidase IV-Related Protein 2;
	Dipeptidylpeptidase 9; EC 3.4.14.5; IMD111; HATIS
Gene ID	91039.0
SwissProt ID	Q86T12
Immunogen	Recombinant protein of human DPP9

Background

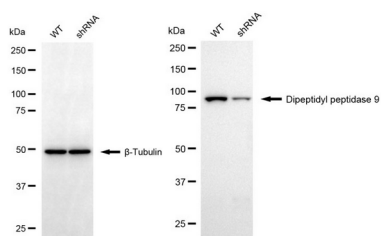
This gene encodes a protein that is a member of the S9B family in clan SC of the serine proteases. The protein has been shown

to have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Although the activity of this protein is similar to that of dipeptidyl peptidase 4 (DPP4), it does not appear to be membrane bound. In general, dipeptidyl peptidases appear to be involved in the regulation of the activity of their substrates and have been linked to a variety of diseases including type 2 diabetes, obesity and cancer. Several transcript variants of this gene have been described but not fully characterized. [provided by RefSeq, Jul 2008]

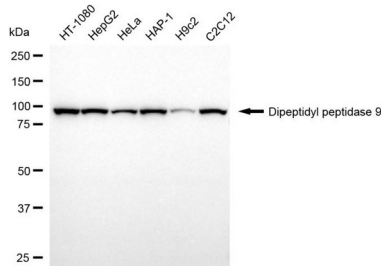
Research Area

Signal Transduction, Metabolism

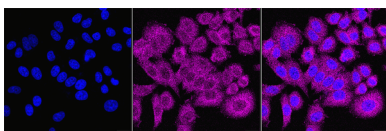
Image Data



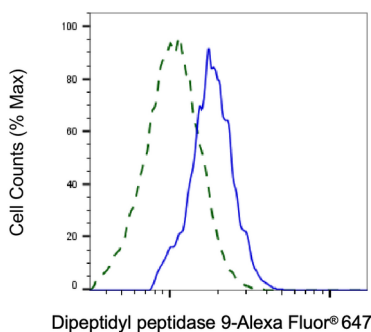
Western blotting analysis using dipeptidyl peptidase 9 antibody (KVA00568). Dipeptidyl peptidase 9 expression in wild type (WT) and dipeptidyl peptidase 9 (DPP9) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with dipeptidyl peptidase 9 antibody (KVA00568, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



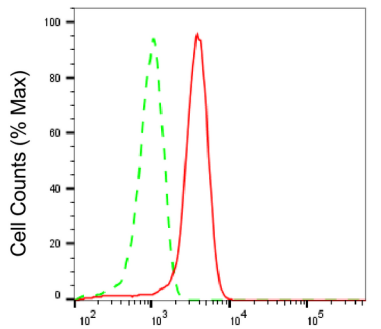
Western blotting analysis using dipeptidyl peptidase 9 antibody (KVA00568). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with dipeptidyl peptidase 9 antibody (KVA00568, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Dipeptidyl peptidase 9 antibody (KVA00568, 1:500). Nuclei were stained blue with DAPI; Dipeptidyl peptidase 9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Dipeptidyl peptidase 9 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Dipeptidyl peptidase 9 antibody (KVA00568, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Dipeptidyl peptidase 9 expression in HepG2 cells using Dipeptidyl peptidase 9 antibody (KVA00568, 1:1,000). Green, isotype control; red, Dipeptidyl peptidase 9.