OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF503956

DPP9 Mouse Monoclonal Antibody [Clone ID: OTI4H8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4H8
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human DPP9(NP_631898) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	96.4 kDa
Gene Name:	Homo sapiens dipeptidyl peptidase 9 (DPP9), transcript variant 1, mRNA.
Database Link:	NP_631898 Entrez Gene 224897 MouseEntrez Gene 301130 RatEntrez Gene 91039 Human Q86TI2

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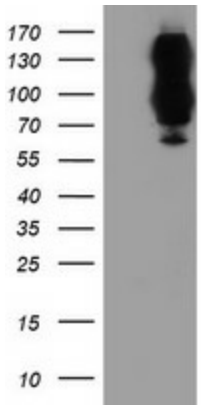
Background: This gene encodes a protein that is a member of the S9B family in clan SC of the serine proteases. The protein has been shown to have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Although the activity of this protein is similar 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]

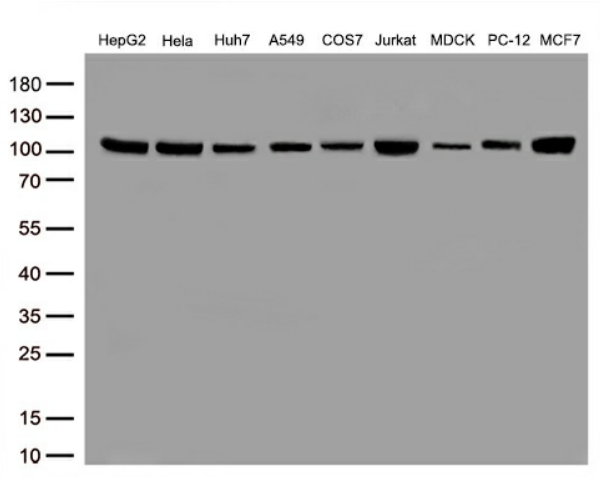
Synonyms: DP9; DPLP9; DPRP-2; DPRP2

Protein Families: Druggable Genome, Protease

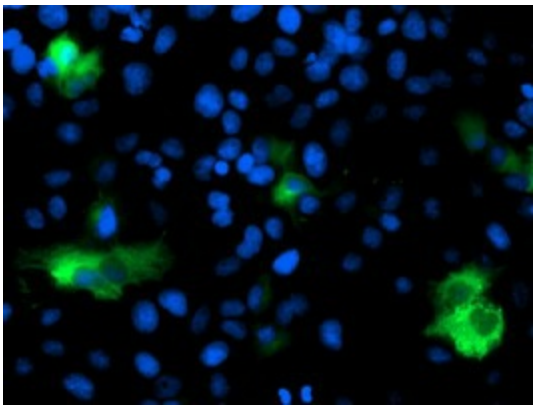
Product images:



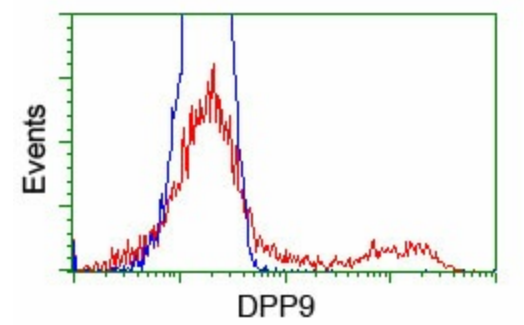
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY DPP9 ([RC224465], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DPP9. Positive lysates [LY403380] (100ug) and [LC403380] (20ug) can be purchased separately from OriGene.



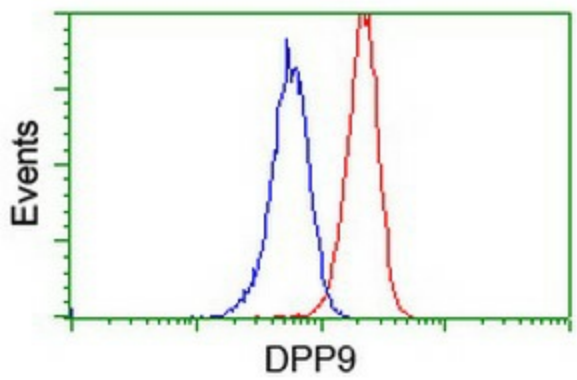
Western blot analysis of extracts (50ug per lane) from 9 cell lines lysates by using anti-DPP9 monoclonal antibody([TA503956], 1:500)



Anti-DPP9 mouse monoclonal antibody ([TA503956]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY DPP9 ([RC224465]).



HEK293T cells transfected with either [RC224465] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-DPP9 antibody ([TA503956]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-DPP9 antibody ([TA503956]), (Red), compared to a nonspecific negative control antibody, (Blue).