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Product datasheet for CF504307

DPP9 Mouse Monoclonal Antibody [Clone ID: OTI1G9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G9
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
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:	dipeptidyl peptidase 9
Database Link:	NP_631898 Entrez Gene 224897 MouseEntrez Gene 485033 DogEntrez Gene 301130 RatEntrez Gene 695587 MonkeyEntrez Gene 91039 Human Q86TI2

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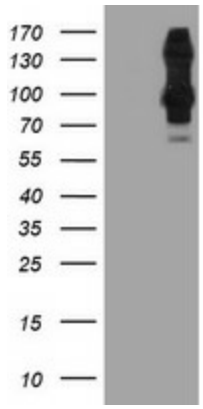
Background: This gene encodes a protein that is a member of the S9B family in clan SC of the serine proteases. The protein has been shown to have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Although the activity of this protein is similar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

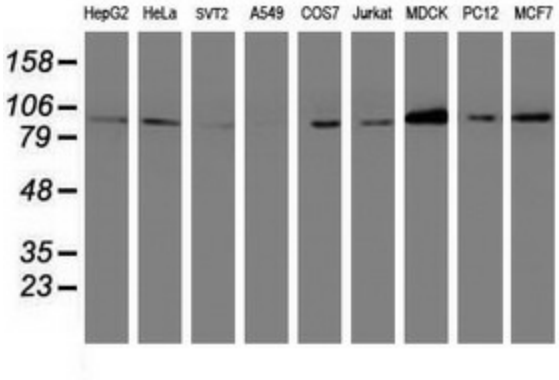
Synonyms: DP9; DPLP9; DPRP-2; DPRP2

Protein Families: Druggable Genome, Protease

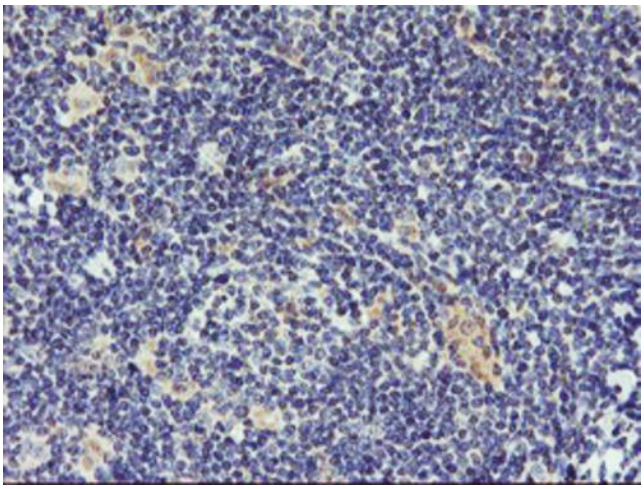
Product images:



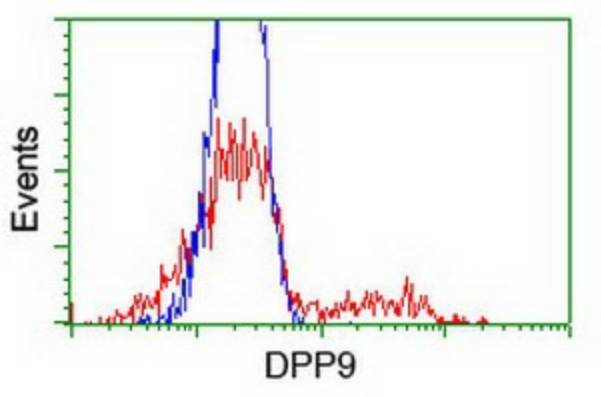
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY DPP9 ([RC224465], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DPP9. Positive lysates [LY403380] (100ug) and [LC403380]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



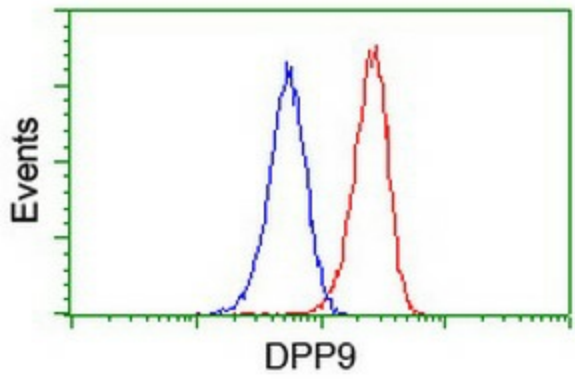
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-DPP9 monoclonal antibody.



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-DPP9 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC224465] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-DPP9 antibody ([TA504307]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-DPP9 antibody ([TA504307]), (Red), compared to a nonspecific negative control antibody, (Blue).