10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-DPP9 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2031

Product Information

Application	WB, FC
Primary Accession	Q86TI2
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Names	24GB8170
Calculated MW	98263
Gene Name	DPP9
Aliases	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
Immunogen	Recombinant protein of human DPP9

Additional Information

Gene ID	91039
Other Names	Dipeptidyl peptidase 9, DP9, 3.4.14.5, Dipeptidyl peptidase IV-related protein 2, DPRP-2, Dipeptidyl peptidase IX, DPP IX, Dipeptidyl peptidase-like protein 9, DPLP9, DPP9 {ECO:0000303|PubMed:12459266, ECO:0000312|HGNC:HGNC:18648}

Protein Information

Name	DPP9 {ECO:0000303|PubMed:12459266, ECO:0000312|HGNC:HGNC:18648}
Function	Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2 (PubMed:12662155, PubMed:16475979, PubMed:19667070, PubMed:29382749, PubMed:30291141, PubMed:33731929, PubMed:36112693). Acts as a key inhibitor of caspase-1-dependent monocyte and macrophage pyroptosis in resting cells by preventing activation of NLRP1 and CARD8 (PubMed:27820798, PubMed:29967349, PubMed:30291141, PubMed:31525884, PubMed:32796818, PubMed:36112693, PubMed: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, 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 DPP9, suggesting the existence of substrate(s) required for

	NLRP1 and CARD8 inhibition (PubMed:33731929).
Cellular Location	[Isoform 1]: Cytoplasm, cytosol
Tissue Location	Ubiquitously expressed, with highest levels in liver, heart and muscle, and lowest levels in brain

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