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KD-Validated Anti-DPP8 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2033

Product Information

Application	WB
Primary Accession	Q6V1X1
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB8195
Calculated MW	103358
Gene Name	DPP8
Aliases	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

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}

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: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

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