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DPEP3 Recombinant Rabbit mAb

Catalog # AP100094

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	Q9H4B8
Other Accession	Q9H4B8
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	53687
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase M19 family.
SUBUNIT	Homodimer; disulfide-linked (By similarity).
Background Descriptions	This gene encodes a membrane-bound glycoprotein from the family of dipeptidases involved in hydrolytic metabolism of various dipeptides, including penem and carbapenem beta-lactam antibiotics. This gene is located on chromosome 16 in a cluster with another member of this family. Alternatively spliced transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	64180
Other Names	MBD3; 1700018F16Rik; MBD-3; MLZ-136; DPEP3_HUMAN; DPEP3; DPEP3_MOUSE; Membrane-bound dipeptidase 3 (MBD-3); Protein expressed in male leptotene and zygotene spermatocytes 136 (MLZ-136); dipeptidase 3; UNQ834/PRO1772
Dilution	WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,IP=1:50-200,IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DPEP3
Function	Lacks dipeptidase activity and is unable to hydrolyze cystinyl-bis-glycine, leukotriene D4 and the beta-lactam antibiotic imipenem (PubMed:32325220). The absence of activity may be due to the inability of asparagine (instead of

	aspartate found in DPEP1/2) at position 359 to function as the acid/base catalyst and activate the nucleophilic water/hydroxide (PubMed:32325220). A tyrosine (instead of histidine) at position 269 reduces affinity for the beta zinc and may cause substrate steric hindrance (PubMed:32325220).
Cellular Location	Membrane {ECO:0000250|UniProtKB:Q9DA79}; Lipid- anchor, GPI-anchor {ECO:0000250|UniProtKB:Q9DA79}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.