

Renal Dipeptidase / DPEP1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10961**Specification****Renal Dipeptidase / DPEP1 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	P16444
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46kDa KDa

Renal Dipeptidase / DPEP1 Antibody (Internal) - Additional Information**Gene ID** 1800**Other Names**

Dipeptidase 1, 3.4.13.19, Dehydropeptidase-I, Microsomal dipeptidase, Renal dipeptidase, hRDP, DPEP1, MDP, RDP

Target/Specificity

Human DPEP1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

Renal Dipeptidase / DPEP1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Renal Dipeptidase / DPEP1 Antibody (Internal) - Protein Information**Name** DPEP1**Synonyms** MDP {ECO:0000303|PubMed:2303490}, RDP**Function**

Hydrolyzes a wide range of dipeptides including the conversion of leukotriene D4 to leukotriene E4 (PubMed:2303490, PubMed:6334084, PubMed:31442408, PubMed:32325220). Hydrolyzes cystinyl- bis-glycine (cys-bis-gly) formed during glutathione degradation (PubMed:32325220). Possesses also beta lactamase activity and can hydrolyze the beta-lactam antibiotic imipenem (PubMed:6334084, PubMed:31442408).

href="http://www.uniprot.org/citations/32325220" target="_blank">32325220).

Cellular Location

Apical cell membrane; Lipid-anchor, GPI-anchor. Cell projection, microvillus membrane; Lipid-anchor, GPI-anchor. Note=Brush border membrane {ECO:0000250|UniProtKB:P31429}

Tissue Location

Expressed in lung and kidneys.

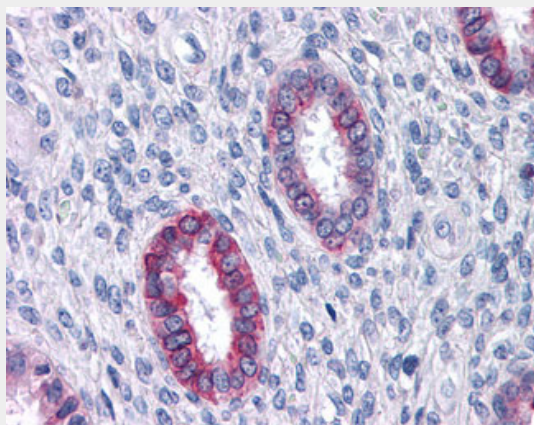
Volume

50 µl

Renal Dipeptidase / DPEP1 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Renal Dipeptidase / DPEP1 Antibody (Internal) - Images

Anti-DPEP1 antibody ALS10961 IHC of human uterus.

Renal Dipeptidase / DPEP1 Antibody (Internal) - Background

Hydrolyzes a wide range of dipeptides. Implicated in the renal metabolism of glutathione and its conjugates. Converts leukotriene D4 to leukotriene E4; it may play an important role in the regulation of leukotriene activity.

Renal Dipeptidase / DPEP1 Antibody (Internal) - References

Satoh S., et al. Biochim. Biophys. Acta 1172:181-183(1993).
Adachi H., et al. J. Biol. Chem. 265:3992-3995(1990).
Satoh S., et al. Biotechnol. Prog. 10:134-140(1994).
Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.