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PEPT1 Rabbit pAb

Catalog # AP97019

Product Information

Application	WB
Primary Accession	Q9JIP7
Other Accession	Q9JIP7
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78560
Physical State	Liquid
Immunogen	Recombinant mouse SLC15A1 protein
Epitope Specificity	383-585/709
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 PTR2/POT transporter (TC 2.A.17) family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PEPT1(Oligopeptide transporter, small intestine isoform (Peptide transporter 1) (Intestinal H(+)/peptide cotransporter) (Solute carrier family 15 member 1) Proton-coupled intake of oligopeptides of 2 to 4 amino acids with a preference for dipeptides. May constitute a major route for the absorption of protein digestion end-products. Subcellular Location：membrane; Multi-pass membrane protein. Tissue Specificity Intestine, kidney, liver and low in brain. Belongs to the PTR2/POT transporter (TC 2.A.17) family.

Additional Information

Gene ID	56643
Other Names	HPECT1; HPEPT1; PEPT1; S15A1_HUMAN; SLC15A1; Intestinal H(+)/peptide cotransporter; Oligopeptide transporter, small intestine isoform; Peptide transporter 1; solute carrier family 15 member 1; solute carrier family 15 (oligopeptide transporter), member 1; peptide transporter HPEPT1; bA551M18.1.1 (solute carrier family 15 (oligopeptide transporter) member 1); solute carrier family 15 oligopeptide transporter member 1
Dilution	WB=1:500-2000
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	Slc15a1 {ECO:0000312|MGI:MGI:1861376}
Function	Electrogenic proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides. Transports neutral and monovalently charged peptides with a proton to peptide stoichiometry of 1:1 or 2:1 (By similarity) (PubMed:11004485). Primarily responsible for the absorption of dietary di- and tripeptides from the small intestinal lumen (By similarity). Mediates transepithelial transport of muramyl and N-formylated bacterial dipeptides contributing to recognition of pathogenic bacteria by the mucosal immune system (By similarity).
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:P46059}; Multi-pass membrane protein. Note=Localized to the apical membrane of enterocytes {ECO:0000250|UniProtKB:P46059}

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