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PEPT1 Rabbit pAb

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Catalog # AP52305

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P46059
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78806
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PEPT1
Epitope Specificity	101-200/714(chk)
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
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	6564
Other Names	Solute carrier family 15 member 1, Intestinal H(+)/peptide cotransporter, Oligopeptide transporter, small intestine isoform, Peptide transporter 1, SLC15A1 (HGNC:10920)
Dilution	WB=1:500-1000,IHC-P=1:50-200,IHC-F=1:400-800,IF=1:100-500
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.

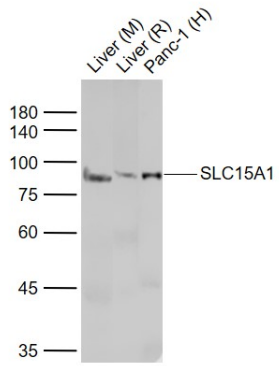
Protein Information

Name	SLC15A1 (HGNC:10920)
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:15521010, PubMed:18367661, PubMed:19685173, PubMed:26320580, PubMed:7896779, PubMed:8914574, PubMed:9835627). 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 (PubMed:15521010, PubMed:9835627).
Cellular Location	Apical cell membrane; Multi-pass membrane protein. Note=Localized to the apical membrane of enterocytes
Tissue Location	Expressed in small intestine.

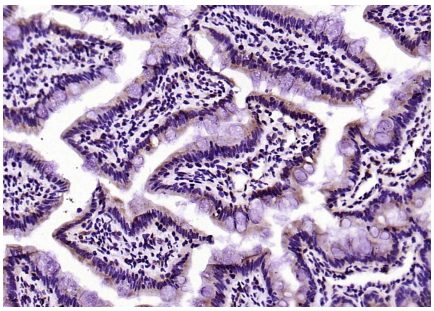
Background

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Images



Sample:
Lane 1: Liver (Mouse) Lysate at 40 ug
Lane 2: Liver (Rat) Lysate at 40 ug
Lane 3: Panc-1 (Human) Cell Lysate at 30 ug
Primary: Anti-SLC15A1 (AP52305) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 80 kD
Observed band size: 83 kD



Paraformaldehyde-fixed, paraffin embedded Rat Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PEPT1 Polyclonal Antibody, Unconjugated (AP52305) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

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