

PEPT2 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2918a**Specification**

PEPT2 Antibody (C-Term) - Product Information

Application	E
Primary Accession	Q16348
Other Accession	NP_066568.2 , 6565
Predicted	Human, Pig
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	81783

PEPT2 Antibody (C-Term) - Additional Information**Gene ID** 6565**Other Names**

Solute carrier family 15 member 2, Kidney H(+)/peptide cotransporter, Oligopeptide transporter, kidney isoform, Peptide transporter 2, SLC15A2, PEPT2

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PEPT2 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

PEPT2 Antibody (C-Term) - Protein Information**Name** SLC15A2 ([HGNC:10921](#))**Function**

Proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides (PubMed:7756356, PubMed:18367661, PubMed:16434549). Transports neutral and anionic dipeptides with a proton to peptide stoichiometry of 2:1 or 3:1 (By similarity). In kidney, involved in the absorption of circulating di- and tripeptides from the glomerular filtrate (PubMed:<a

[7756356](http://www.uniprot.org/citations/7756356)). Can also transport beta-lactam antibiotics, such as the aminocephalosporin cefadroxil, and other antiviral and anticancer drugs (PubMed:[16434549](http://www.uniprot.org/citations/16434549)). Transports the dipeptide-like aminopeptidase inhibitor bestatin (By similarity). Also able to transport carnosine (PubMed:[31073693](http://www.uniprot.org/citations/31073693)). Involved in innate immunity by promoting the detection of microbial pathogens by NOD-like receptors (NLRs) (By similarity). Mediates transport of bacterial peptidoglycans across the plasma membrane or, in macrophages, the phagosome membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand (PubMed:[20406817](http://www.uniprot.org/citations/20406817)).

Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:Q63424}; Multi-pass membrane protein. Cytoplasmic vesicle, phagosome membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Associated with the cell membrane in resting macrophages and enriched in phagocytic cups and phagosomes after particle internalization.

Tissue Location

Expressed in kidney (PubMed:7756356). Not detected in intestine (PubMed:7756356). Highly expressed in macrophages (PubMed:20406817).

PEPT2 Antibody (C-Term) - 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](#)

PEPT2 Antibody (C-Term) - Images

PEPT2 Antibody (C-Term) - References

Peptide transporter 2 (PEPT2) expression in brain protects against 5-aminolevulinic acid neurotoxicity. Hu Y, Shen H, Keep RF, Smith DE, J. Neurochem. 2007 Dec 103 (5): 2058-65. PMID: 17854384