10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

href="http://www.uniprot.org/citations/7756356" target="_blank">7756356). Can also transport beta-lactam antibiotics, such as the aminocephalosporin cefadroxil, and other antiviral and anticancer drugs (PubMed:16434549). Transports the dipeptide-like aminopeptidase inhibitor bestatin (By similarity). Also able to transport carnosine (PubMed: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).

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 Cytomety
- 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