

Anti-PEPT1(Peptide transporter 1) Polyclonal Antibody

Cat. #: 60B392

Description:

The PEPT1(Peptide transporter 1) is Proton-coupled intake of oligopeptides of 2 to 4 amino acids with a preference for dipeptides. It may constitute a major route for the absorption of protein digestion end-products.

It belongs to the PTR2/POT transporter (TC 2.A.17)family. PEPT1 mediates oligopeptide-induced hormone secretion in enteroendocrine cells. PEPT1 transports muramyl dipeptide, activating NF-kappaB and stimulating IL-8 secretion in human colonic Caco2/bbe cells. The functionalities of PEPT1 and PEPT2 were largely conserved in terms of glycylsarcosine uptake kinetics and inhibitor specificity. Functional PepT1 recovers efficiently in a budded virus fraction and this expression system will be a useful tool for characterization and screening of peptide-mimetic drugs in drug discovery.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human PEPT1(Peptide transporter 1) (Oligopeptide transporter, small intestine isoform (Peptide transporter 1) (Intestinal H(+)/peptide cotransporter)

References

- Liang,R., et al, J. Biol. Chem. 270 (12), 6456-6463 (1995)
- Charrier,L., et al, Lab. Invest. 86 (5), 490-503 (2006)
- Saitoh,R., et al, Protein Expr. Purif. 46 (1), 130-135 (2006)
- Inoue,M., et al, Cancer Lett. 230 (1), 72-80 (2005)
- Matsumura,K., et al, Biochem. Biophys. Res. Commun. 336 (4), 1028-1032 (2005)
- Biegel,A., et al, J. Med. Chem. 48 (13), 4410-4419 (2005)
- Irie,M., et al, J. Physiol. (Lond.) 565 (PT 2), 429-439 (2005)
- Alteheld,B., et al, J. Nutr. 135 (1), 19-26 (2005)
- Vavricka,S.R., et al, Gastroenterology 127 (5), 1401-1409 (2004)
- Zhang,E.Y., et al, Mol. Pharm. 1 (3), 201-210 (2004)
- Herrera-Ruiz,D., et al, Mol. Pharm. 1 (2), 136-144 (2004)

Clone Number:

Isotype:

Species: Human

Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)