

## Anti-PEPT1(Peptide transporter 1) Polyclonal Antibody

Cat. #: 60B447

### 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 glycy sarcosine 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 N-terminal residues of mouse PEPT1(Peptide transporter 1)(Oligopeptide transporter, small intestine isoform) (Intestinal H(+)/peptide cotransporter)

### References

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- Biegel,A., et al, J. Med. Chem. 48 (13), 4410-4419 (2005)
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- Zhang,E.Y., et al, Mol. Pharm. 1 (3), 201-210 (2004)
- Herrera-Ruiz,D., et al, Mol. Pharm. 1 (2), 136-144 (2004)

Species: mouse

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)