

## Rabbit Anti-PEPT1 antibody

SL0689R

**Product Name** PEPT1

**Chinese Name** 肠道肽 Transporter1/小肽 Transporter1 抗体

**Alias** SLC15A1; Oligopeptide transporter, small intestine isoform; Peptide transporter 1; Intestinal H(+)-dependent solute carrier family 15 member 1(SLC15A1); +peptide cotransporter; HPECT1; HPEPT1; Human HPEPT1 (HPEPT1) mRNA complete cds; Intestinal H; Oligopeptide transporter small intestine isoform; Peptide transporter 1; Solute carrier family 15 (oligopeptide transporter) member 1; S15A1\_HUMAN.

**Research Area** Signal transduction Channel protein

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human Mouse Rat

**Applications** WB=1:500-1000,IHC-P=1:50-200,IHC-F=1:400-800,IF=1:100-500  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 79kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human PEPT1: 101-200/714(chk) <Cytoplasmic

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% Glycerol

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic

**PubMed** [PubMed](#)

**Product** PEPT1(Oligopeptide transporter, small intestine isoform (Peptide transporter 1) (Intestinal H(+)-dependent solute carrier family 15 member 1))

## Detail

(Solute carrier family 15 member 1) Proton-coupled intake of oligopeptides of 2 to 4 amino acid dipeptides. May constitute a major route for the absorption of protein digestion end-products. Su membrane; Multi-pass membrane protein. Tissue Specificity Intestine, kidney, liver and low in b PTR2/POT transporter (TC 2.A.17) family.

### Function:

Proton-coupled intake of oligopeptides of 2 to 4 amino acids with a preference for dipeptides. Ma for the absorption of protein digestion end-products.

### Subcellular Location:

Membrane; Multi-pass membrane protein.

### Similarity:

Belongs to the PTR2/POT transporter (TC 2.A.17) family.

### SWISS:

Q90WH8

### Gene ID:

6564

### Database links:

[Entrez Gene: 6564](#) Human

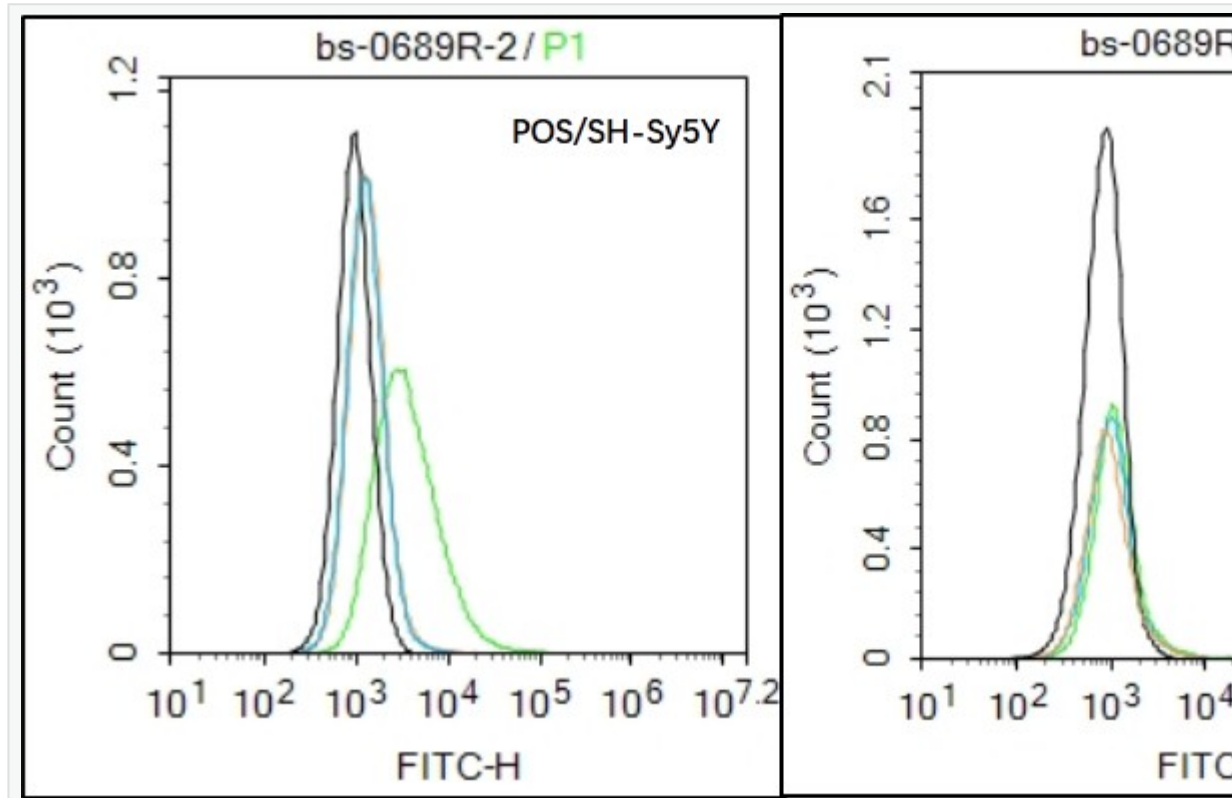
[Omim: 600544](#) Human

[SwissProt: P46059](#) Human

[Unigene: 436893](#) Human

小肽 Transporter 又称寡肽 Transporter; 小肽是蛋白质在动物体内消化的主要产物, 而位于 Transporter 在小肽的吸收过程中发挥重要作用, 因此 PepT1 的活性直接影响小肽的吸收。PepT1 主要在消化道中表达, 在肾脏中也有微弱的表达。PepT1 是低亲和力、高容量的肽载体。低容量的肽载体。PepT2 主要在肾脏中表达。

**Product  
Picture**



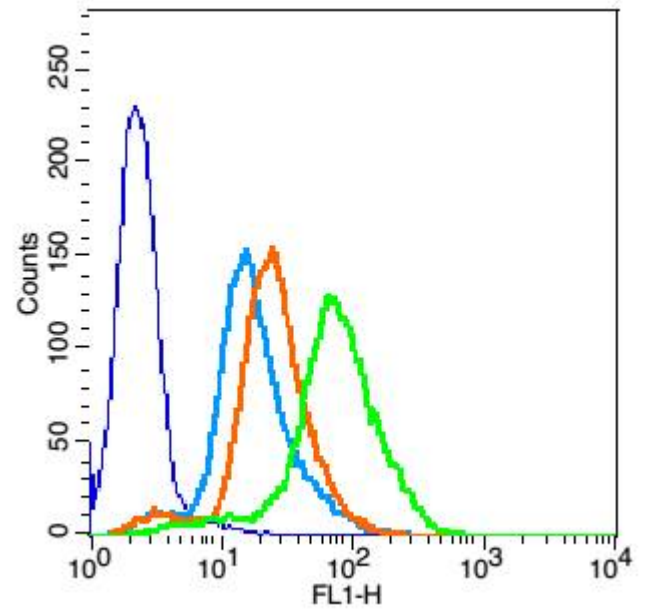
Black line : Positive blank control SH-Sy5Y); Negative blank control (A431)

Green line : Primary Antibody (Rabbit Anti-PEPT1 antibody (SL0689R) )

Orange line: Isotype Control Antibody (Rabbit IgG) .

Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF488)

SH-Sy5Y (Positive) and A431 (Negative control) cells (black) were incubated in 5% BSA block solution at room temperature. Cells were then stained with PEPT1 Antibody(SL0689R)at 1:50 dilution for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cell populations were analyzed by flow cytometry using FITC-H channel. The results are shown in the histograms. The black line represents the primary antibody (green), and isotype control (orange).



Blank control: HCCLM3(blue)

Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 3 $\mu$ l in 100  $\mu$ L

BSA(green).