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SLC15A3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12933C

Product Information

Application	IHC-P, WB, E
Primary Accession	Q8IY34
Other Accession	Q924V4, Q8BPX9, NP_057666.1
Reactivity	Human, Rat, Mouse
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28120
Calculated MW	63560
Antigen Region	168-197

Additional Information

Gene ID	51296
Other Names	Solute carrier family 15 member 3, Osteoclast transporter, Peptide transporter 3, Peptide/histidine transporter 2, SLC15A3, OCTP, PHT2, PTR3
Target/Specificity	This SLC15A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 168-197 amino acids from the Central region of human SLC15A3.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLC15A3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC15A3 (HGNC:18068)
Function	Proton-coupled amino-acid transporter that transports free histidine and certain di- and tripeptides, and is involved in innate immune response

(PubMed:39719710). Preferably binds to short peptides with a basic residue at the first position and a hydrophobic residue at the second position (PubMed:39719710). Also able to transport carnosine (PubMed:31073693, PubMed:31254495). Involved in the detection of microbial pathogens by toll-like receptors (TLRs) and NOD-like receptors (NLRs), probably by mediating transport of bacterial peptidoglycans across the endolysosomal membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand (By similarity).

Cellular Location Lysosome membrane; Multi-pass membrane protein. Endosome membrane {ECO:0000250|UniProtKB:Q8BPX9}; Multi-pass membrane protein

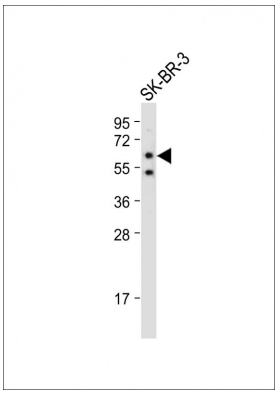
Background

SLC15A3 is proton oligopeptide cotransporter. Transports free histidine and certain di-and tripeptides (By similarity).

References

Daniel, H., et al. Pflugers Arch. 447(5):610-618(2004) Sakata, K., et al. Biochem. J. 356 (PT 1), 53-60 (2001) : Botka, C.W., et al. AAPS PharmSci 2 (2), E16 (2000) :

Images



Anti-SLC15A3 Antibody (Center) at 1:2000 dilution + SK-BR-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.