



Code No. KAL-KE027-EX

For research use only

Anti Mouse asc-type Amino Acid Transporter 1 (Asc-1) Polyclonal Antibody, Rabbit

Mammalian amino acid transport system is consisted of large variety of transporters, with the reflection of amino acid molecule variety, and is classified into various transport systems by the transportative substrate selectivity and the Na⁺ dependence with the reflection of amino acid molecule variety.

asc-type amino acid transporter 1(Asc-1) is a member of the family of amino acid transporters associated with type II membrane glycoproteins, which requires an additional single membrane spanning protein, 4F2 heavy chain (4F2hc: CD98), for its functional expression. Asc-1 mediates the transport of neutral amino acid, in particular, small neutral amino acids such as Gly, L-ala, L-Ser, L-Thr and L-Cys as substrate in Na⁺-independent manner.

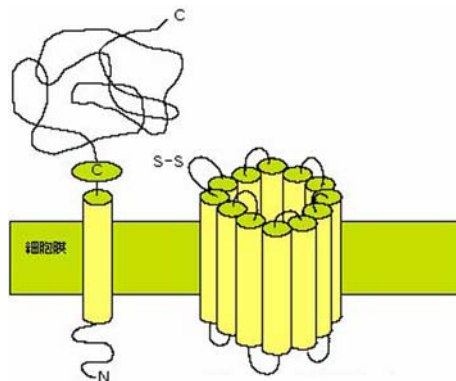
This has been proved to be useful for the immunohistochemistry.

Package Size	25 μ g (250 μ L / Vial)
Format	Rabbit polyclonal antibody 0.1 mg/ml
Buffer	Block Ace as a stabilizer, containing 0.1%Proclin as bacteriostat
Storage	Store below -20°C until needed Once thawed, store at 4°C. Repeated freeze-thaw cycles should be avoided.
Purification method	This antibody was purified from rabbit serum immunized with synthesized peptide of mouse Asc1 by peptide affinity chromatography.
Working dilution for immunohistochemistry:	30 μ g/mL, for immunoblotting: 0.1-1 μ g/mL
HGNC Name	SLC7A10(Solute Carrier family 7A10)

*HGNC: Human Gene Nomenclature Committee



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4F2hc LAT Transporter Family

Heterodimeric Complex

【Reference】

1. Fukasawa Y., Segawa H., Kim J.Y., Chairoungdua A., Kim D.K., Endou h., and Kanai Y.: Identification and characterization of a Na⁺-independent neutral amino acid transporter which associates with the 4F2heavy chain and exhibits selectivity for small neutral D- and L- amino acids. *J.Biol.Chem.* 275(13): 9690-9698,2000

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TOYO EKIMAE BLDG. 2-20, TOYO 2CHOME
KOTO-KU, TOKYO 135-0016, JAPAN
TEL : +81-3-5632-9617
FAX : +81-3-5632-9618
URL : <http://www.cosmobio.co.jp/>
e-mail : export@cosmobio.co.jp

Manufacturer



7-1-6 Minatojimaminami-machi,
Chuo-ku, Kobe,650-0047 JAPAN
TEL : +81-78-306-0590
FAX : +81-78-306-0589
URL : <http://www.transgenic.co.jp/>
e-mail : techstaff@transgenic.co.jp