Datasheet for ABIN7599448

anti-SLC7A7 antibody (AA 1-498)

Go to Product page

Overview

Quantity:	100 µg
Target:	SLC7A7 (Slc7a7)
Binding Specificity:	AA 1-498
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC7A7 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-SLC7A7 Antibody Picoband®
Immunogen:	E.coli-derived human SLC7A7 recombinant protein (Position: M1-D498). Human SLC7A7 shares 90.8% and 91.6% amino acid (aa) sequence identity with mouse and rat SLC7A7, respectively.
Characteristics:	Anti-SLC7A7 Antibody Picoband® (ABIN7599448). Tested in WB, IHC, IF, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	SLC7A7 (Slc7a7)
Alternative Name:	SLC7A7 (Slc7a7 Products)
Background:	Y+L amino acid transporter 1 is a protein that in humans is encoded by the SLC7A7 gene. The protein encoded by this gene is the light subunit of a cationic amino acid transporter. This sodium-independent transporter is formed when the light subunit encoded by this gene dimerizes with the heavy subunit transporter protein SLC3A2. This transporter is found in epithelial cell membranes where it transfers cationic and large neutral amino acids from the cell to the extracellular space. Defects in this gene are a cause of lysinuric protein intolerance (LPI). Alternative splicing results in multiple transcript variants.
Molecular Weight:	60 kDa
Gene ID:	9056

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry, 2-5 µg/mL, Human Immunofluorescence, 5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Borsani, G., Bassi, M. T., Sperandeo, M. P., De Grandi, A., Buoninconti, A., Riboni, M., Manzoni, M., Incerti, B., Pepe, A., Andria, G., Ballabio, A., Sebastio, G. SLC7A7, encoding a putative permease-related protein, is mutated in patients with lysinuric protein intolerance. Nature Genet. 21: 297-301, 1999. 2. Font-Llitjos, M., Rodriguez-Santiago, B., Espino, M., Sillue, R., Manas, S., Gomez, L., Perez-Jurado, L. A., Palacin, M., Nunes, V. Novel SLC7A7 large rearrangements in lysinuric protein intolerance patients involving the same AluY repeat. Europ. J. Hum. Genet. 17: 71-79, 2009. 3. Mykkanen, J., Torrents, D., Pineda, M., Camps, M., Yoldi, M. E., Horelli-Kuitunen, N., Huoponen, K., Heinonen, M., Oksanen, J., Simell, O., Savontaus, M.-L., Zorzano, A., Palacin, M., Aula, P. Functional analysis of novel mutations in y+LAT-1 amino acid transporter gene causing lysinuric protein intolerance (LPI). Hum. Molec. Genet. 9: 431-438, 2000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.