Datasheet for ABIN7601249

anti-LAMTOR1 antibody (AA 31-161)

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Overview

Quantity:	100 µg
Target:	LAMTOR1
Binding Specificity:	AA 31-161
Reactivity:	Human, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAMTOR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-LAMTOR1 Antibody Picoband®
Immunogen:	E.coli-derived human LAMTOR1 recombinant protein (Position: K31-P161).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-LAMTOR1 Antibody Picoband® (ABIN7601249). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Rat, Monkey. 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:	LAMTOR1
Alternative Name:	LAMTOR1 (LAMTOR1 Products)
Background:	Synonyms: ELAV-like protein 2, ELAV-like neuronal protein 1, Hu-antigen B, HuB, Nervous system-specific RNA-binding protein Hel-N1, ELAVL2, HUB Tissue Specificity: Brain, neural-specific. Background: Late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 is a protein that in humans is encoded by the LAMTOR1 gene. mTORC1 kinase complex is a critical component in the regulation of cell growth. Its activity is modulated by energy levels, growth factors, and amino acids. The four related GTPases, RagA, RagB, RagC, and RagD, have been shown to interact with raptor in mTORC1. These interactions are both necessary and sufficient for mTORC1 activation in response to amino acid signals. A protein complex consisting of LAMTOR1/C11orf59, LAMTOR2/ROBLD3, and LAMTOR3/MAPKSP1 has been identified to interact with and recruit the four Rag GTPases to the surface of lysosomes.
Molecular Weight:	18 kDa
Gene ID:	55004

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Rat, Monkey Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Guillaumot, P., Luquain, C., Malek, M., Huber, A.-L., Brugiere, S., Garin, J., Grunwald, D., Regnier, D., Petrilli, V., Lefai, E., Manie, S. N. Pdro, a protein associated with late endosomes and lysosomes and implicated in cellular cholesterol homeostasis. PLoS One 5: e10977, 2010. Note: Electronic Article. 2. Hoshino, D., Tomari, T., Nagano, M., Koshikawa, N., Seiki, M. A novel protein associated with membrane-type 1 matrix metalloproteinase binds p27(kip1) and regulates RhoA activation, actin remodeling, and matrigel invasion. J. Biol. Chem. 284: 27315-27326, 2009. 3. Rebsamen, M., Pochini, L., Stasyk, T., de Araujo, M. E. G., Galluccio, M., Kandasamy, R. K., Snijder, B., Fauster, A., Rudashevskaya, E. L., Bruckner, M., Scorzoni, S., Filipek, P. A., Huber, K. V. M., Bigenzahn, J. W., Heinz, L. X., Kraft, C., Bennett, K. L., Indiveri, C., Huber, L. A., Superti-Furga, G. SLC38A9 is a component of the lysosomal amino acid sensing machinery that controls mTORC1. Nature 519: 477-481, 2015.
Restrictions:	For Research Use only

Handling

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