Datasheet for ABIN7601632

anti-PLCE1 antibody (AA 4-735)

Go to Product page

Overview

Quantity:	100 µg
Target:	PLCE1
Binding Specificity:	AA 4-735
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLCE1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-PLCE1 Antibody Picoband®
Immunogen:	E.coli-derived human PLCE1 recombinant protein (Position: E4-E735). Human PLCE1 shares 74.6% and 73.6% amino acid (aa) sequence identity with mouse and rat PLCE1, respectively.
Characteristics:	Anti-PLCE1 Antibody Picoband® (ABIN7601632). Tested in WB, ELISA applications. This antibody reacts with Human. 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:	PLCE1
Alternative Name:	PLCE1 (PLCE1 Products)
Background:	Phospholipase C epsilon 1 (PLCE1) is an enzyme that in humans is encoded by the PLCE1 gene. This gene encodes a phospholipase enzyme that catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate to generate two second messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG). These second messengers subsequently regulate various processes affecting cell growth, differentiation, and gene expression. This enzyme is regulated by small monomeric GTPases of the Ras and Rho families and by heterotrimeric G proteins. In addition to its phospholipase C catalytic activity, this enzyme has an N-terminal domain with guanine nucleotide exchange (GEF) activity. Mutations in this gene cause early-onset nephrotic syndrome, characterized by proteinuria, edema, and diffuse mesangial sclerosis or focal and segmental glomerulosclerosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Weight:	290 kDa
Gene ID:	51196
UniProt:	Q9P212
Pathways:	EGFR Signaling Pathway, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Boyer, O., Benoit, G., Gribouval, O., Nevo, F., Pawtowski, A., Bilge, I., Bircan, Z., Deschenes, G., Guay-Woodford, L. M., Hall, M., Macher, M.-A., Soulami, K., Stefanidis, C. J., Weiss, R., Loirat, C., Gubler, M.-C., Antignac, C. Mutational analysis of the PLCE1 gene in steroid resistant nephrotic syndrome. J. Med. Genet. 47: 445-452, 2010. 2. Bunney, T. D., Harris, R., Lamuno Gandarillas, N., Josephs, M. B., Roe, S. M., Sorli, S. C., Paterson, H. F., Rodrigues-Lima, F., Esposito, D., Ponting, C. P., Gierschik, P., Pearl, L. H., Driscoll, P. C., Katan, M. Structural and mechanistic insights into Ras association domains of phospholipase C epsilon. Molec. Cell 21: 495-507, 2006. 3. Evellin, S., Nolte, J., Tysack, K., vom Dorp, F., Thiel, M., Oude Weernink, P. A., Jakobs, K. H., Webb, E. J., Lomasney, J. W., Schmidt, M. Stimulation of phospholipase C-epsilon by the M(3) muscarinic acetylcholine receptor mediated by cyclic AMP and the GTPase Rap2B. J. Biol. Chem. 277: 16805-16813, 2002.
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.