

Datasheet for ABIN7602086
anti-PREX2 antibody (AA 582-1094)



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Overview

Quantity:	100 µg
Target:	PREX2 (DEPDC2)
Binding Specificity:	AA 582-1094
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PREX2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Anti-PREX2 Antibody Picoband®
Immunogen:	E.coli-derived human PREX2 recombinant protein (Position: D582-Q1094).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PREX2 Antibody Picoband® (ABIN7602086). Tested in ELISA, WB applications. This antibody reacts with Human, MouseThe 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:	PREX2 (DEPDC2)
Alternative Name:	PREX2 (DEPDC2 Products)
Background:	<p>Synonyms: Neurocan core protein, Chondroitin sulfate proteoglycan 3, NCAN, CSPG3, NEUR,</p> <p>Tissue Specificity: Brain.</p> <p>Background: Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2 is a protein that in humans is encoded by the PREX2 gene. The protein encoded by this gene belongs to the phosphatidylinositol 3,4,5-trisphosphate (PIP3)-dependent Rac exchanger (PREX) family, which are Dbl-type guanine-nucleotide exchange factors for Rac family small G proteins. Structural domains of this protein include the catalytic diffuse B-cell lymphoma homology and pleckstrin homology (DHPH) domain, two disheveled, EGL-10, and pleckstrin homology (DEP) domains, two PDZ domains, and a C-terminal inositol polyphosphate-4 phosphatase (IP4P) domain that is found in one of the isoforms. This protein facilitates the exchange of GDP for GTP on Rac1, allowing the GTP-bound Rac1 to activate downstream effectors. Studies also show that the pleckstrin homology domain of this protein interacts with the phosphatase and tensin homolog (PTEN) gene product to inhibit PTEN phosphatase activity, thus activating the phosphoinositide-3 kinase (PI3K) signaling pathway. Conversely, the PTEN gene product has also been shown to inhibit the GEF activity of this protein. This gene plays a role in insulin-signaling pathways, and either mutations or overexpression of this gene have been observed in some cancers.</p>
Molecular Weight:	183 kDa
Gene ID:	80243
UniProt:	Q70Z35

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Mouse</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Berger, M. F., Hodis, E., Heffernan, T. P., Deribe, Y. L., Lawrence, M. S., Protopopov, A., Ivanova, E., Watson, I. R., Nickerson, E., Ghosh, P., Zhang, H., Zeid, R., and 36 others. Melanoma genome sequencing reveals frequent PREX2 mutations. <i>Nature</i> 485: 502-506, 2012. 2. Donald, S., Hill, K., Lecureuil, C., Barnouin, R., Krugmann, S., Coadwell, W. J., Andrews, S. R., Walker, S. A., Hawkins, P. T., Stephens, L. R., Welch, H. C. E. P-Rex2, a new guanine-nucleotide exchange factor for Rac. <i>FEBS Lett.</i> 572: 172-176, 2004. 3. Donald, S., Humby, T., Fyfe, I., Segonds-Pichon, A., Walker, S. A., Andrews, S. R., Coadwell, W. J., Emson, P., Wilkinson, L. S., Welch, H. C. E. P-Rex2 regulates</p>
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Application Details

Purkinje cell dendrite morphology and motor coordination. Proc. Nat. Acad. Sci. 105: 4483-4488, 2008.

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.