Datasheet for ABIN7600148

anti-MINPP1 antibody (AA 155-421)

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Overview

Quantity:	100 µg
Target:	MINPP1
Binding Specificity:	AA 155-421
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MINPP1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MINPP1 Antibody Picoband®
Immunogen:	E.coli-derived human MINPP1 recombinant protein (Position: R155-H421). Human MINPP1 shares 89.5% and 89.9% amino acid (aa) sequence identity with mouse and rat MINPP1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-MINPP1 Antibody Picoband® (ABIN7600148). Tested in WB, IHC, Flow Cytometry, 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	MINPP1
Alternative Name:	MINPP1 (MINPP1 Products)
Background:	Synonyms: MINPP1, MIPP, UNQ900/PRO1917, Multiple inositol polyphosphate phosphatase 1, EC 3.1.3.62, 2,3-bisphosphoglycerate 3-phosphatase, 2,3-BPG phosphatase, EC 3.1.3.80, Inositol, 1,3,4,5-tetrakisphosphate 3-phosphatase, Ins(1,3,4,5P(4 3-phosphatase Background: his gene encodes multiple inositol polyphosphate phosphatase, an enzyme that removes 3-phosphate from inositol phosphate substrates. It is the only enzyme known to hydrolzye inositol pentakisphosphate and inositol hexakisphosphate. This enzyme also converts 2,3 bisphosphoglycerate (2,3-BPG) to 2-phosphoglycerate, an activity formerly thought to be exclusive to 2,3-BPG synthase/2-phosphatase (BPGM) in the Rapoport-Luebering shunt of the glycolytic pathway.
Molecular Weight:	47 kDa
Gene ID:	9562

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry, 2-5 µg/mL, Human, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL
	1. Appelhof, B., Wagner, M., Hoefele, J., Heinze, A., Roser, T., Koch-Hogrebe, M., Roosendaal, S. D., Dehghani, M., Mehrjardi, M. Y. V., Torti, E., Houlden, H., Maroofian, R., Rajabi, F., Sticht, H., Baas, F., Wieczorek, D., Jamra, R. A. Pontocerebellar hypoplasia due to bi-allelic variants in MINPP1. Europ. J. Hum. Genet. 29: 411-421, 2021. 2. Caffrey, J. J., Hidaka, K., Matsuda, M., Hirata, M., Shears, S. B. The human and rat forms of multiple inositol polyphosphate phosphatase: functional homology with a histidine acid phosphatase up-regulated during endochondral ossification. FEBS Lett. 442: 99-104, 1999. 3. Chi, H., Tiller, G. E., Dasouki, M. J., Romano, P. R., Wang, J., O'Keefe, R. J., Puzas, J. E., Rosier, R. N., Reynolds, P. R. Multiple inositol polyphosphate phosphatase: evolution as a distinct group within the histidine phosphatase family and chromosomal localization of the human and mouse genes to chromosomes 10q23 and 19. Genomics 56: 324-336, 1999.

Application Details

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.