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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Phosphatidic Acid Phosphatase Domain Containing 2 (PPAPDC2). Rabbit Antigen
Immunoaffinity Purified Polyclonal**

BACKGROUND

Upon cell activation Presqualene diphosphate (PSDP)², a bioactive lipid, rapidly remodels to presqualene monophosphate (PSMP). A newly identified and characterized phosphatase (phosphatidic acid phosphatase domain containing 2 (PPAPDC2)) has recently been shown to convert PSDP to PSMP. Also known as Phosphatidic acid phosphatase type 2 domain-containing protein 2. Unlike the related polyisoprenyl phosphate farnesyl diphosphate (FDP), PSDP has been shown not to be a substrate for type 2 lipid phosphate phosphohydrolases. PSDP phosphatase activity has been identified in activated human neutrophil (PMN) extracts. Recombinant PPAPDC2 displays diphosphate phosphatase activity with substrate preference for PSDP > FDP phosphatidic acid. PPAPDC2 activity is independent of Mg²⁺ and optimal at pH 7.0-8.0. PPAPDC2 mRNA has been detected in human PMN, and is widely expressed in human tissues. PPAPDC2 expressed in human PMN is first lipid phosphate phosphohydrolase identified for PSDP. The regulation of this enzyme's activity has important implications for PMN activation in innate immunity.

IMMUNOGEN

Synthetic peptide derived from human phosphatidic acid phosphatase type 2 domain containing 2 (PPAPDC2)

POSITIVE CONTROL/TISSUE EXPRESSION

Testis

COMMENTS

Antibody can be used for Western blotting (1:400-1:800 dilution). Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X1717P

SIZE

10 Miniblots

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as ligand affinity purified antibody in phosphate buffered saline with 0.1% BSA and 0.08% sodium azide

CONCENTRATION

Lot specific, see vial

ISOTYPE

N/A

APPLICATIONS

Western Blot, Immunoprecipitation

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Q81Y26, Human

PURIFICATION**SHIP CONDITIONS**

Ship on gel ice, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. "IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF A PRESQUALENE DIPHOSPHATE PHOSPHATASE." Koichi Fukunaga, Makoto Arita, Minoru Takahashi, Andrew J. Morris, Michael Pfeffer and Bruce D. Levy JBC Papers in Press. Published on February 7, 2006 as Manuscript M512970200
2. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg R. L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Marra M.A.; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).