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PRL3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8438b

Specification

PRL3 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O75365
Other Accession	Q9D658, A2VDT1
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**19535**
Antigen Region	**135-164**

PRL3 Antibody (C-term) - Additional Information

Gene ID 11156

Other Names
Protein tyrosine phosphatase type IVA 3, PRL-R, Protein-tyrosine phosphatase 4a3, Protein-tyrosine phosphatase of regenerating liver 3, PRL-3, PTP4A3, PRL3

Target/Specificity
This PRL3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-164 amino acids from the C-terminal region of human PRL3.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PRL3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PRL3 Antibody (C-term) - Protein Information

Name PTP4A3

Synonyms PRL3

Function Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis. May be involved in the progression of cardiac hypertrophy by inhibiting intracellular calcium mobilization in response to angiotensin II.

Cellular Location
Cell membrane. Early endosome

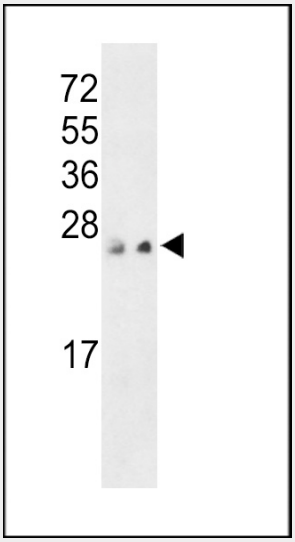
Tissue Location
Mainly expressed in cardiomyocytes and skeletal muscle; also found in pancreas. Consistently overexpressed in colon cancer metastasis.

PRL3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PRL3 Antibody (C-term) - Images



Western blot analysis of PTP4A3 C-term (Cat. #AP8438b) in MCF-7 and 293 cell line lysates (35ug/lane). PTP4A3 (arrow) was detected using the purified Pab.

PRL3 Antibody (C-term) - Background

The protein encoded by this gene belongs to a small class of prenylated protein tyrosine phosphatases (PTPs). PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. This class of PTPs contain a PTP domain and a characteristic C-terminal

prenylation motif. Studies of this class of PTPs in mice demonstrated that they were prenylated proteins in vivo, which suggested their association with cell plasma membrane. Overexpression of this gene in mammalian cells was reported to inhibit angiotensin-II induced cell calcium mobilization and promote cell growth. Two alternatively spliced variants exist.

PRL3 Antibody (C-term) - References

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Matter, W.F., et al., Biochem. Biophys. Res. Commun. 283(5):1061-1068 (2001).
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