PRL-3 Antibody

PRODUCT OVERVIEW

Product Name	PRL-3, Antibody
Full Product Name	PRL-3 antibody
Product Gene Name	anti-PRL-3 antibody
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific peptide.
Specificity	PRL-3 antibody detects endogenous levels of PRL-3.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	10,494 Da
OMIM	606449
3D Structure	ModBase 3D Structure for O75365
Immunogen	The antiserum was produced against synthesized peptide derived from human PRL-3 around 161-166 aa (K-D-P-H-T).
Product Categories/Family for anti-PRL-3 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRL-3 antibody	Western Blot (WB)
Application Notes for anti-PRL-3 antibody	WB: 1:500-1:1000
Related Product Information for anti-PRL-3 antibody	MBS856913 is an antibody targeting PRL-3. Also known as PRL-3 antibody. Reactive in Human, Mouse.
Product References and Citations for anti-PRL-3 antibody	Wang J, et al. (2002) J Biol Chem; 277: 46659-68.
Other Notes	Small volumes of anti-PRL-3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-PRL-3 antibody
Western blot analysis of extract from LX-2 cells transfected with PRL-3 using PRL-3 antibody (E021333).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRL-3. It may not necessarily be applicable to this product.

NCBI GI #	14589854
NCBI GeneID	11156
NCBI Accession #	NP_009010.2
UniProt Primary Accession #	O75365
UniProt Secondary Accession #	Q8IVN5; Q99849; Q9BTW5
UniProt Related Accession #	O75365
GenBank Nucleotide #	NM_007079.3
NCBI Official Full Name	protein tyrosine phosphatase type IVA 3 isoform 2
NCBI Official Synonym Full Names	protein tyrosine phosphatase type IVA, member 3
NCBI Official Symbol	PTP4A3
NCBI Official Synonym Symbols	PRL3; PRL-3; PRL-R
UniProt Protein Name	Protein tyrosine phosphatase type IVA 3
UniProt Synonym Protein Names	PRL-R; Protein-tyrosine phosphatase 4a3; Protein-tyrosine phosphatase of regenerating liver 3; PRL-3
Protein Family	Protein tyrosine phosphatase
UniProt Gene Name	PTP4A3
UniProt Synonym Gene Names	PRL3; PRL-3
NCBI Protein Information	protein tyrosine phosphatase type IVA 3
NCBI Summary for PRL-3	This gene encodes a member of the protein-tyrosine phosphatase family. Protein tyrosine phosphatases are cell signaling molecules that play regulatory roles in a variety of cellular processes. Studies of this class of protein tyrosine phosphatase in mice demonstrates that they are prenylated in vivo, suggesting their association with cell plasma membrane. The encoded protein may enhance cell proliferation, and overexpression of this gene has been implicated in tumor metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
UniProt Comments for PRL-3	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.
Research Articles on PRL-3	**1.** We conclude that PRL-3 is an important regulatory factor for breast cancer cell proliferation and invasion. Loss of PRL-3 function induces an antimetastatic gene expression profile in breast cancer cells. Due to its role in tumor growth and metastasis, PRL-3 emerges as a new therapeutic target in breast cancer therapy.
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