PRLR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRLR, Polyclonal Antibody
Full Product Name	PRLR Conjugated Antibody
Product Gene Name	anti-PRLR antibody
Product Synonym Names	hPRLrI
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total PRLR protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	24,000
Chromosome Location	Chromosome: 5; NC_000005.9 (35048861..35230823, complement). Location: 5p13.2
OMIM	176761
3D Structure	ModBase 3D Structure for P16471
Immunogen	Peptide sequence around aa.25~29 (Q-L-P-P-G) derived from Human PRLR
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-PRLR antibody	Most Applications
Application Notes for anti-PRLR antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-PRLR antibody	This is a receptor for the anterior pituitary hormone prolactin (PRL). Isoform 4 is unable to transduce prolactin signaling. Isoform 6 is unable to transduce prolactin signaling
Other Notes	Small volumes of anti-PRLR 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.
Searchable Terms for PRLR purchase	MBS9438842 is an antibody targeting PRLR. Also known as PRLR Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4506107
NCBI GeneID	5618
NCBI Accession #	NP_000940.1
UniProt Primary Accession #	P16471
UniProt Secondary Accession #	Q16354; Q8TD75; Q8TD78; Q96P35; Q96P36; Q9BX87; Q9UHJ5; B2R882
UniProt Related Accession #	P16471
GenBank Nucleotide #	NM_000949.4
NCBI Official Full Name	prolactin receptor isoform 1
NCBI Official Synonym Full Names	prolactin receptor
NCBI Official Symbol	PRLR
NCBI Official Synonym Symbols	hPRLrI
UniProt Protein Name	Prolactin receptor
Protein Family	Prolactin receptor
UniProt Gene Name	PRLR
UniProt Synonym Gene Names	PRL-R
UniProt Entry Name	PRLR_HUMAN
NCBI Protein Information	prolactin receptor; PRL-R; hPRL receptor; secreted prolactin binding protein
NCBI Summary for PRLR	This gene encodes a receptor for the anterior pituitary hormone, prolactin, and belongs to the type I cytokine receptor family. Prolactin-dependent signaling occurs as the result of ligand-induced dimerization of the prolactin receptor. Several alternatively spliced transcript variants encoding different membrane-bound and soluble isoforms have been described for this gene, which may function to modulate the endocrine and autocrine effects of prolactin in normal tissue and cancer. [provided by RefSeq, Feb 2011]
UniProt Comments for PRLR	PRLR: receptor for the anterior pituitary hormone prolactin and placental lactogen I and II. Interacts with Cyclophilin A, differentially regulating various signaling pathways from the PrlR. Prolactin signaling is attenuated by threonine and tyrosine phosphorylation. Two alternative splice isoforms have been identified. Protein type: Receptor, cytokine; Membrane protein, integral Chromosomal Location of Human Ortholog: 5p13.2 Cellular Component: cell surface; integral to membrane; plasma membrane; extracellular region Molecular Function: protein binding; protein homodimerization activity; ornithine decarboxylase activator activity; peptide hormone binding; metal ion binding; prolactin receptor activity Biological Process: regulation of cell adhesion; lactation; transmembrane receptor protein tyrosine kinase activation (dimerization); cell surface receptor linked signal transduction; T cell activation; regulation of epithelial cell differentiation; tyrosine phosphorylation of JAK2 protein; steroid biosynthetic process; embryo implantation; negative regulation of apoptosis Disease: Multiple Fibroadenomas Of The Breast; Hyperprolactinemia
Research Articles on PRLR	**1.** Our results indicate no significant association of prolactin and PRLR polymorphisms with clozapine response, tardive dyskinesia diagnosis or its severity in patients with schizophrenia
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