CNPY3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CNPY3, Polyclonal Antibody
Full Product Name	CNPY3, NT (CNPY3, CTG4A, ERDA5, PRAT4A, TNRC5, Protein canopy homolog 3, CTG repeat protein 4a, Expanded repeat-domain protein CAG/CTG 5, Protein associated with TLR4, Trinucleotide repeat-containing gene 5 protein) (MaxLight 750)
Product Gene Name	anti-CNPY3 antibody
Product Synonym Names	CNPY3; CTG4A; ERDA5; PRAT4A; TNRC5; Protein canopy homolog 3; CTG repeat protein 4a; Expanded repeat-domain protein CAG/CTG 5; Protein associated with TLR4; Trinucleotide repeat-containing gene 5 protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	5,773 Da
OMIM	610774
3D Structure	ModBase 3D Structure for Q9BT09
Immunogen	CNPY3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-92 amino acids from the N-terminal region of human CNPY3.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CNPY3 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-CNPY3 antibody	Western Blot (WB), FLISA
Application Notes for anti-CNPY3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CNPY3 antibody	PRAT4A is associated with the immature form of TLR4 (MIM 603030) and regulates its cell surface expression (Wakabayashi et al., 2006 [PubMed 16849487]).
Product References and Citations for anti-CNPY3 antibody	Wakabayashi, Y., et al. J. Immunol. 177(3):1772-1779(2006). Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003). Zhang, H., et al. Nat. Biotechnol. 21(6):660-666(2003). Zhang, H., et al. Nat. Biotechnol. 21(6):660-666(2003). Margolis, R.L., et al. Hum. Genet. 100(1):114-122(1997).

Other Notes	Small volumes of anti-CNPY3 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 CNPY3 purchase	MBS6287337 is an antibody targeting CNPY3. Also known as CNPY3, NT (CNPY3, CTG4A, ERDA5, PRAT4A, TNRC5, Protein canopy homolog 3, CTG repeat protein 4a, Expanded repeat-domain protein CAG/CTG 5, Protein associated with TLR4, Trinucleotide repeat-containing gene 5 protein) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNPY3. It may not necessarily be applicable to this product.

NCBI GI #	33942072
NCBI GeneID	10695
NCBI Accession #	NP_006577.2
UniProt Primary Accession #	Q9BT09
UniProt Secondary Accession #	O15412; Q0P6I2; Q8NF54; Q8WTU8; Q9P0F2
UniProt Related Accession #	Q9BT09
GenBank Nucleotide #	NM_006586.3
NCBI Official Full Name	protein canopy homolog 3
NCBI Official Synonym Full Names	canopy FGF signaling regulator 3
NCBI Official Symbol	CNPY3
NCBI Official Synonym Symbols	CAG4A; ERDA5; TNRC5; PRAT4A
UniProt Protein Name	Protein canopy homolog 3
UniProt Synonym Protein Names	CTG repeat protein 4a; Expanded repeat-domain protein CAG/CTG 5; Protein associated with TLR4; Trinucleotide repeat-containing gene 5 protein
Protein Family	Protein canopy
UniProt Gene Name	CNPY3
UniProt Synonym Gene Names	CTG4A; ERDA5; PRAT4A; TNRC5
UniProt Entry Name	CNPY3_HUMAN
NCBI Protein Information	protein canopy homolog 3; CAG repeat containing; CTG repeat protein 4a; canopy 3 homolog; expanded repeat domain, CAG/CTG 5; expanded repeat-domain protein CAG/CTG 5; protein associated with TLR4; protein associated with Toll-like receptor 4A; trinucleoti
UniProt Comments for CNPY3	TNRC5: Toll-like receptor (TLR)-specific co-chaperone for HSP90B1. Required for proper TLR folding, except that of TLR3, and hence controls TLR exit from the endoplasmic reticulum. Consequently, required for both innate and adaptative immune responses. Belongs to the canopy family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 6p21.1 Cellular Component: endoplasmic reticulum lumen Molecular Function: receptor binding Biological Process: toll-like receptor signaling pathway; innate immune response

Research Articles on CNPY3	**1.** a mechanism for the differential trafficking of TLR1 I602S variants, and highlight the distinct roles for PRAT4A and PRAT4B in the regulation of TLR1 surface expression.
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