NAT12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NAT12, Polyclonal Antibody
Full Product Name	NAT12, CT (NAA30, C14orf35, MAK3, NAT12, N-alpha-acetyltransferase 30, N-acetyltransferase 12, N-acetyltransferase MAK3 homolog, NatC catalytic subunit) (MaxLight 650)
Product Gene Name	anti-NAT12 antibody
Product Synonym Gene Name	NAA30
Product Synonym Names	NAA30; C14orf35; MAK3; NAT12; N-alpha-acetyltransferase 30; N-acetyltransferase 12; N-acetyltransferase MAK3 homolog; NatC catalytic subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	35,580 Da
3D Structure	ModBase 3D Structure for Q147X3
Immunogen	NAT12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 322-350 amino acids from the C-terminal region of human NAT12.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-NAT12 antibody	Antibodies; Enzymes; Acetyltransferase
Applications Tested/Suitable for anti-NAT12 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-NAT12 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-NAT12 antibody	MaxLight650 is a new Far-IR stable dye conjugate comparable to Alexa Fluor647, DyLight649, Cy5 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (655nm); Emission (676nm); Extinction Coefficient 250,000.
Product References and Citations for anti-NAT12 antibody	Polevoda, B., et al. BMC Proc 3 SUPPL 6, S2 (2009).

Other Notes	Small volumes of anti-NAT12 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 NAT12 purchase	MBS6323899 is an antibody targeting NAT12. Also known as NAT12, CT (NAA30, C14orf35, MAK3, NAT12, N-alpha-acetyltransferase 30, N-acetyltransferase 12, N-acetyltransferase MAK3 homolog, NatC catalytic subunit) (MaxLight 650). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NAT12. It may not necessarily be applicable to this product.

NCBI GI #	190341107
NCBI GeneID	122830
NCBI Accession #	NP_001011713.2
UniProt Primary Accession #	Q147X3
UniProt Secondary Accession #	Q0IIN2
UniProt Related Accession #	Q147X3
GenBank Nucleotide #	NM_001011713.2
NCBI Official Full Name	N-alpha-acetyltransferase 30
NCBI Official Synonym Full Names	N(alpha)-acetyltransferase 30, NatC catalytic subunit
NCBI Official Symbol	NAA30
NCBI Official Synonym Symbols	MAK3; Mak3p; NAT12; NAT12P; C14orf35
UniProt Protein Name	N-alpha-acetyltransferase 30
UniProt Synonym Protein Names	N-acetyltransferase 12; N-acetyltransferase MAK3 homolog; NatC catalytic subunit
Protein Family	Nucleobase-ascorbate transporter
UniProt Gene Name	NAA30
UniProt Synonym Gene Names	C14orf35; MAK3; NAT12
UniProt Entry Name	NAA30_HUMAN
NCBI Protein Information	N-alpha-acetyltransferase 30; N-acetyltransferase 12 (GCN5-related, putative); N-acetyltransferase MAK3 homolog; N-alpha-acetyltransferase 30, NatC catalytic subunit; natC catalytic subunit; putative N-acetyltransferase
UniProt Comments for NAT12	NAA30: Catalytic subunit of the N-terminal acetyltransferase C (NatC) complex. Catalyzes acetylation of the N-terminal methionine residues of peptides beginning with Met-Leu-Ala and Met-Leu-Gly. Necessary for the lysosomal localization and function of ARL8B. Belongs to the acetyltransferase family. MAK3 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Acetyltransferase; EC 2.3.1.88 Chromosomal Location of Human Ortholog: 14q22.3 Cellular Component: polysome; cytoplasm Molecular Function: peptide alpha-N-acetyltransferase activity; protein binding Biological Process: N-terminal protein amino acid acetylation; N-terminal peptidyl-methionine acetylation
Research Articles on NAT12	**1.** Human Naa30 (MAK3) is the catalytic subunit of the human NatC N-terminal acetyltransferase complex. NatC acetylates hydrophobic Met-starting N-termini, and NatC knockdown induces p53-dependent apoptosis.

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