MRNA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRNA, Polyclonal Antibody
Full Product Name	MRNA (mRNA-capping Enzyme, HCAP1, HCE, RNGTT, CAP1A) (MaxLight 650)
Product Gene Name	anti-MRNA antibody
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 MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human MRNA. Species sequence homology: Mouse
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	70.9 kDa (620aa)
OMIM	603512
3D Structure	ModBase 3D Structure for O60942
Immunogen	Recombinant corresponding to human MRNA fused to GST-tag.
Conjugate	MaxLight650
Positive Control	HeLa nuclear extract
Note	Preservative Free
Product Categories/Family for anti-MRNA antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-MRNA antibody	Immunocytochemistry (ICC), Western Blot (WB)
Application Notes for anti-MRNA antibody	ICC: 1:500 WB: 1:5000 Applications are based on unconjugated antibody.
Related Product Information for anti-MRNA antibody	MBS6269822 is an antibody targeting MRNA. Also known as MRNA (mRNA-capping Enzyme, HCAP1, HCE, RNGTT, CAP1A) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MRNA antibody	1. Cowling, V.H. and Cole, M.D. (2009). Oncogene. Doi:10.1038/onc.2008.463. Analysis 2. Cowling, V.H. and Cole, M.D. (2008). Nat Rev Mol Cell Biol. Doi: 10.1038/ nrm2467 3. Bentley, D.L. (2005). Curr Opin Cell Biol. 17:251-256.
Other Notes	Small volumes of anti-MRNA 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.

ADDITIONAL DETAILS

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

NCBI GI #	134142828
NCBI GeneID	8732
NCBI Accession #	NP_003791
UniProt Primary Accession #	O60942
UniProt Secondary Accession #	O43483; O60257; O60351; Q5TCW8; Q8WUM8; E1P513; E1P514
UniProt Related Accession #	O60942
GenBank Nucleotide #	NM_003800.4
NCBI Official Full Name	mRNA-capping enzyme isoform a
NCBI Official Synonym Full Names	RNA guanylyltransferase and 5'-phosphatase
NCBI Official Symbol	RNGTT
NCBI Official Synonym Symbols	HCE; HCE1; hCAP; CAP1A
UniProt Protein Name	mRNA-capping enzyme
UniProt Synonym Protein Names	HCAP1; HCEIncluding the following 2 domains:Polynucleotide 5'-triphosphatase (EC:3.1.3.33)Alternative name(s):mRNA 5'-triphosphatase; TPase
Protein Family	mRNA 3'-end-processing protein
UniProt Gene Name	RNGTT
UniProt Synonym Gene Names	CAP1A; TPase; GTase
UniProt Entry Name	MCE1_HUMAN
NCBI Protein Information	mRNA-capping enzyme
UniProt Comments for MRNA	RNGTT: a bifunctional mRNA capping enzyme with RNA 5'-triphosphatase activity in the N-terminal part and mRNA guanyltransferase activity in the C-terminal part. Catalyzes the first two steps of cap formation: by removing the gamma-phosphate from the 5'-triphosphate end of nascent mRNA to yield a diphosphate end, and by transferring the gmp moiety of GTP to the 5'-diphosphate terminus. Four alternatively spliced human isoforms have been described. Isoform 1 and isoform 4 are expressed in cerebrum, cerebellum, thyroid, lung, heart, liver, kidney, spleen, large intestine, testis, skin and muscle. Isoforms 2, 3 and 4 lack mRNA 5'-guanylyltransferase activity due to disruptions of the GTPase domain. Protein type: EC 2.7.7.50; EC 3.1.3.33; Motility/polarity/chemotaxis; Phosphatase (non-protein); Transferase Chromosomal Location of Human Ortholog: 6q16 Cellular Component: nucleoplasm; nucleus Molecular Function: mRNA guanylyltransferase activity; polynucleotide 5'-phosphatase activity; RNA guanylyltransferase activity; triphosphatase activity Biological Process: mRNA capping; RNA processing; transcription from RNA polymerase II promoter
Research Articles on MRNA	**1.** These results identify a new domain of CE that is specific to its function in cytoplasmic capping, and a new role for Nck1 in regulating gene expression through its role as the scaffold for assembly of the cytoplasmic capping complex.
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