NCBP1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	NCBP1, Monoclonal Antibody
Full Product Name	NCBP1 (Nuclear Cap-binding Protein Subunit 1, 80kD Nuclear Cap-binding Protein, CBP80, NCBP 80kD Subunit, CBP80, NCBP, MGC2087) (MaxLight 750)
Product Gene Name	anti-NCBP1 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1E9
Host	Mouse
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.
Specificity	Recognizes human NCBP1.
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	Predicted: 87 kDa Observed: 87 kDa
OMIM	600469
3D Structure	ModBase 3D Structure for Q09161
Immunogen	Partial recombinant corresponding to aa2-99 from human NCBP1 (NP_002477) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SRRRHSDENDGGQPHKRRKTSDANETEDHLESLICKVGEKSACSLESNLEGLAGVLEADLPNYKSKILRLLCTVARLLPEKLTIYTTLVGLLNARNYN
Conjugate	MaxLight750
Product Categories/Family for anti-NCBP1 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-NCBP1 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-NCBP1 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.

Related Product Information for anti-NCBP1 antibody	MBS6234060 is an antibody targeting NCBP1. Also known as NCBP1 (Nuclear Cap-binding Protein Subunit 1, 80kD Nuclear Cap-binding Protein, CBP80, NCBP 80kD Subunit, CBP80, NCBP, MGC2087) (MaxLight 750). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-NCBP1 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 NCBP1. It may not necessarily be applicable to this product.

NCBI GI #	4505343
NCBI GeneID	4686
NCBI Accession #	NP_002477
UniProt Primary Accession #	Q09161
UniProt Secondary Accession #	Q59G76; Q5T1V0; Q5T7X2; B2R718
UniProt Related Accession #	Q09161
GenBank Nucleotide #	NM_002486
NCBI Official Full Name	nuclear cap-binding protein subunit 1
NCBI Official Synonym Full Names	nuclear cap binding protein subunit 1, 80kDa
NCBI Official Symbol	NCBP1
NCBI Official Synonym Symbols	NCBP; Sto1; CBP80
UniProt Protein Name	Nuclear cap-binding protein subunit 1
UniProt Synonym Protein Names	80 kDa nuclear cap-binding protein
UniProt Gene Name	NCBP1
UniProt Synonym Gene Names	CBP80; NCBP; CBP80
UniProt Entry Name	NCBP1_HUMAN
NCBI Protein Information	nuclear cap-binding protein subunit 1; NCBP 80 kDa subunit; 80 kDa nuclear cap-binding protein; nuclear cap binding protein subunit 1, 80kD
NCBI Summary for NCBP1	The product of this gene is a component of the nuclear cap-binding protein complex (CBC), which binds to the monomethylated 5' cap of nascent pre-mRNA in the nucleoplasm. The encoded protein promotes high-affinity mRNA-cap binding and associates with the CTD of RNA polymerase II. The CBC promotes pre-mRNA splicing, 3'-end processing, RNA nuclear export, and nonsense-mediated mRNA decay. [provided by RefSeq, Jul 2008]

UniProt Comments for NCBP1	NCBP1: mediates U snRNA export from the nucleus. Binds to 5' capped mRNA. Found in aU snRNA export complex with RNUXA/PHAX, CBP20, CBP80, RAN, XPO1 and m7G-capped RNA. Interaction with RNUXA/PHAX. Heterodimer with NCBP2. Is part of the exon junction complex (EJC) containing NCBP1, NCBP2, RNPS1, RBM8A, SRRM1, NXF1, UPF3B, UPF2, THOC4 and/or REFBP2. Protein type: Translation; Spliceosome; RNA processing Chromosomal Location of Human Ortholog: 9q34.1 Cellular Component: nucleoplasm; mRNA cap complex; mitochondrion; cytoplasm; nucleus; cytosol; ribonucleoprotein complex Molecular Function: protein binding; RNA binding; RNA cap binding Biological Process: transcription from RNA polymerase II promoter; spliceosomal snRNP biogenesis; viral reproduction; positive regulation of viral transcription; RNA splicing; histone mRNA metabolic process; positive regulation of mRNA 3'-end processing; nuclear mRNA splicing, via spliceosome; mRNA export from nucleus; mRNA capping; RNA elongation from RNA polymerase II promoter; mRNA catabolic process, nonsense-mediated decay; RNA-mediated gene silencing; gene expression; nuclear mRNA cis splicing, via U2-type spliceosome; mRNA 3'-end processing; termination of RNA polymerase II transcription; mRNA cleavage; regulation of translational initiation
Research Articles on NCBP1	**1.** down-regulation of CTIF using a small interfering RNA causes a redistribution of CBP80 from polysome fractions to subpolysome fractions, without significant consequence to eIF4E distribution
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