CAF-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAF-1, Polyclonal Antibody
Full Product Name	CAF-1, NT (CNOT7, CAF1, CCR4-NOT transcription complex subunit 7, BTG1-binding factor 1, CCR4-associated factor 1) (MaxLight 550)
Product Gene Name	anti-CAF-1 antibody
Product Synonym Gene Name	CNOT7
Product Synonym Names	CNOT7; CAF1; CCR4-NOT transcription complex subunit 7; BTG1-binding factor 1; CCR4-associated factor 1
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 MaxLight550.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	604913
3D Structure	ModBase 3D Structure for Q9UIV1
Immunogen	CAF-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-68 amino acids from the N-terminal region of human CAF-1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CAF-1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-CAF-1 antibody	Immunofluorescence (IF), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CAF-1 antibody	IF: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CAF-1 antibody	The protein encoded by this gene binds to an anti-proliferative protein, B-cell translocation protein 1, which negatively regulates cell proliferation. Binding of the two proteins, which is driven by phosphorylation of the anti-proliferative protein, causes signaling events in cell division that lead to changes in cell proliferation associated with cell-cell contact. The protein has both mouse and yeast orthologs. Alternate splicing of this gene results in two transcript variants encoding different isoforms.
Product References and Citations for anti-CAF-1 antibody	Lau, N.C., et al. Biochem. J. 422(3):443-453(2009). Aslam, A., et al. Mol. Biol. Cell 20(17):3840-3850(2009). Miyasaka, T., et al. Cancer Sci. 99(4):755-761(2008). Nishida, K., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 63 (PT 12), 1061-1063 (2007): Robin-Lespinasse, Y., et al. J. Cell. Sci. 120 (PT 4), 638-647 (2007).

Other Notes	Small volumes of anti-CAF-1 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 CAF-1 purchase	MBS6280481 is an antibody targeting CAF-1. Also known as CAF-1, NT (CNOT7, CAF1, CCR4-NOT transcription complex subunit 7, BTG1-binding factor 1, CCR4-associated factor 1) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAF-1. It may not necessarily be applicable to this product.

NCBI GI #	85067505
NCBI GeneID	29883
NCBI Accession #	NP_473367.2
UniProt Primary Accession #	Q9UIV1
UniProt Related Accession #	Q9UIV1
GenBank Nucleotide #	NP_473367.2
NCBI Official Full Name	CCR4-NOT transcription complex subunit 7 isoform 2
NCBI Official Synonym Full Names	CCR4-NOT transcription complex subunit 7
NCBI Official Symbol	CNOT7
NCBI Official Synonym Symbols	CAF1; CAF-1; Caf1a; hCAF-1
UniProt Protein Name	CCR4-NOT transcription complex subunit 7
UniProt Synonym Protein Names	BTG1-binding factor 1; CCR4-associated factor 1; CAF-1; Caf1a
Protein Family	Calfumirin
UniProt Gene Name	CNOT7
UniProt Synonym Gene Names	CAF1; CAF-1
UniProt Entry Name	CNOT7_HUMAN
NCBI Protein Information	CCR4-NOT transcription complex subunit 7
NCBI Summary for CAF-1	The protein encoded by this gene binds to an anti-proliferative protein, B-cell translocation protein 1, which negatively regulates cell proliferation. Binding of the two proteins, which is driven by phosphorylation of the anti-proliferative protein, causes signaling events in cell division that lead to changes in cell proliferation associated with cell-cell contact. The encoded protein downregulates the innate immune response and therefore provides a therapeutic target for enhancing its antimicrobial activity against foreign agents. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1 and X. [provided by RefSeq, Apr 2016]

UniProt Comments for CAF-1	CNOT7: Ubiquitous transcription factor required for a diverse set of processes. It is a component of the CCR4 complex involved in the control of gene expression. Belongs to the CAF1 family. Protein type: EC 3.1.13.4; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 8p22-p21.3 Cellular Component: membrane; cytosol; nucleus; CCR4-NOT complex Molecular Function: signal transducer activity; protein binding; 3'-5'-exoribonuclease activity; poly(A)-specific ribonuclease activity; exoribonuclease activity; RNA binding; metal ion binding; transcription factor activity Biological Process: deadenylation-dependent decapping; transcription, DNA-dependent; signal transduction; miRNA-mediated gene silencing; regulation of translation; negative regulation of cell proliferation; poly(A) tail shortening; positive regulation of cell proliferation; carbohydrate metabolic process; RNA-mediated gene silencing; positive regulation of transcription from RNA polymerase II promoter; gene expression; cytoplasmic mRNA processing body assembly; mRNA catabolic process, deadenylation-dependent decay
Research Articles on CAF-1	**1.** Data show that incorporation of ATP-dependent RNA helicase eIF4A-2 (eIF4A2) into the CCR4-NOT complex inhibits CCR4-NOT transcription complex subunit 7 (CNOT7) deadenylation activity.
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