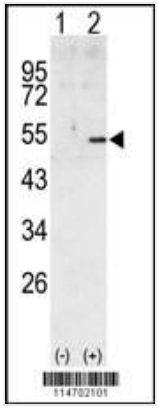
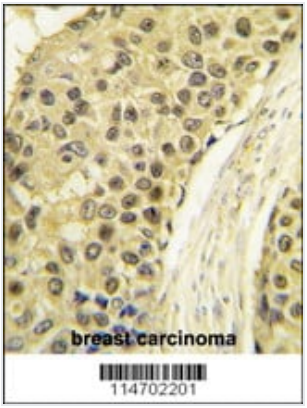
CCNA2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CCNA2, Polyclonal Antibody
Full Product Name	CCNA2, CT (Cyclin-A2, Cyclin-A, CCN1, CCNA) (MaxLight 405)
Product Gene Name	anti-CCNA2 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 MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CCNA2.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	51.1 kDa (456aa)
OMIM	123835
3D Structure	ModBase 3D Structure for P20248
Immunogen	Synthetic peptide selected from the C-terminal region of human CCNA2 (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-CCNA2 antibody	Antibodies; Cyclin
Applications Tested/Suitable for anti-CCNA2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CCNA2 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-CCNA2 antibody	MBS6471157 is an antibody targeting CCNA2. Also known as CCNA2, CT (Cyclin-A2, Cyclin-A, CCN1, CCNA) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CCNA2 antibody	1. Henglein B., Proc. Natl. Acad. Sci. USA 91:5490-5494(1994). 2. Wang J., Nature 343:555-557(1990). 3. Tsang, W.Y., J. Cell Biol. 178(4), 621-633 (2007).
Other Notes	Small volumes of anti-CCNA2 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.



Western Blot (WB) of anti-CCNA2 antibody
Western blot analysis of CCNA2 (arrow) using rabbit polyclonal CCNA2 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CCNA2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-CCNA2 antibody
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CCNA2 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCNA2. It may not necessarily be applicable to this product.

NCBI GI #	4502613
NCBI GeneID	890
NCBI Accession #	NP_001228
UniProt Primary Accession #	P20248
UniProt Secondary Accession #	Q2M3U6; Q4W5P4; Q6LER8; A8K7B6
UniProt Related Accession #	P20248
GenBank Nucleotide #	NM_001237.4
NCBI Official Full Name	cyclin-A2
NCBI Official Synonym Full Names	cyclin A2
NCBI Official Symbol	CCNA2
NCBI Official Synonym Symbols	CCN1; CCNA
UniProt Protein Name	Cyclin-A2
Protein Family	Cyclin
UniProt Gene Name	CCNA2
UniProt Synonym Gene Names	CCN1; CCNA; Cyclin-A
UniProt Entry Name	CCNA2_HUMAN
NCBI Protein Information	cyclin-A2
NCBI Summary for CCNA2	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members function as regulators of the cell cycle. This protein binds and activates cyclin-dependent kinase 2 and thus promotes transition through G1/S and G2/M. [provided by RefSeq, Aug 2016]

UniProt Comments for CCNA2	CCNA2: a member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Expressed in all tissues tested. This cyclin binds and activates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S and G2/M transitions. Protein type: Cell cycle regulation; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 4q27 Cellular Component: nucleoplasm; male pronucleus; cytoplasm; female pronucleus; nucleus Molecular Function: protein binding; protein kinase binding Biological Process: mitosis; positive regulation of fibroblast proliferation; organ regeneration; response to glucagon stimulus; cell division; positive regulation of transcription, DNA-dependent; mitotic cell cycle G2/M transition DNA damage checkpoint; regulation of G2/M transition of mitotic cell cycle; Ras protein signal transduction; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; G2/M transition of mitotic cell cycle; response to estradiol stimulus
Research Articles on CCNA2	**1.** Findings suggest that ERK1/2-mediated Cdk2/cyclin A signaling pathway is involved in 7-hydroxy-5,4'-dimethoxy-2-arylbenzofuran (Ary) - induced G1/S-phase arrest.
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