NCAPG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NCAPG2, Polyclonal Antibody
Full Product Name	NCAPG2, ID (NCAPG2, LUZP5, Condensin-2 complex subunit G2, Chromosome-associated protein G2, Leucine zipper protein 5, Non-SMC condensin II complex subunit G2) (MaxLight 750)
Product Gene Name	anti-NCAPG2 antibody
Product Synonym Names	NCAPG2; LUZP5; Condensin-2 complex subunit G2; Chromosome-associated protein G2; Leucine zipper protein 5; Non-SMC condensin II complex subunit G2
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 MaxLight750.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	130,960 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (158424003..158497520, complement). Location: 7q36.3
OMIM	608532
3D Structure	ModBase 3D Structure for Q86XI2
Immunogen	NCAPG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 728-757 amino acids from the Central region of human NCAPG2.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-NCAPG2 antibody	Antibodies; Leucine Zipper Proteins
Applications Tested/Suitable for anti-NCAPG2 antibody	Western Blot (WB), FLISA
Application Notes for anti-NCAPG2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NCAPG2 antibody	Condensin complexes I and II play essential roles in mitotic chromosome assembly and segregation. Both condensins contain 2 invariant structural maintenance of chromosome (SMC) subunits, SMC2 (MIM 605576) and SMC4 (MIM 605575), but they contain different sets of non-SMC subunits. NCAPG2 is 1 of 3 non-SMC subunits that define condensin II (Ono et al., 2003 [PubMed 14532007]).
Product References and Citations for anti-NCAPG2 antibody	Wood, J.L., et al. J. Biol. Chem. 283(43):29586-29592(2008). Nousiainen, M., et al. Proc. Natl. Acad. Sci. U.S.A. 103(14):5391-5396(2006). Nousiainen, M., et al. Proc. Natl. Acad. Sci. U.S.A. 103(14):5391-5396(2006). Smith, E.D., et al. Mol. Cell. Biol. 24(3):1168-1173(2004). Ono, T., et al. Cell 115(1):109-121(2003).

Other Notes	Small volumes of anti-NCAPG2 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 NCAPG2 purchase	MBS6324065 is an antibody targeting NCAPG2. Also known as NCAPG2, ID (NCAPG2, LUZP5, Condensin-2 complex subunit G2, Chromosome-associated protein G2, Leucine zipper protein 5, Non-SMC condensin II complex subunit G2) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCAPG2. It may not necessarily be applicable to this product.

NCBI GI #	116812586
NCBI GeneID	54892
NCBI Accession #	NP_060230.5
UniProt Primary Accession #	Q86XI2
UniProt Secondary Accession #	Q7Z3J9; Q8WUG8; Q9BRX6; Q9H8S2; Q9H9K6; A4D228
UniProt Related Accession #	Q86XI2
GenBank Nucleotide #	NM_017760.5
NCBI Official Full Name	condensin-2 complex subunit G2
NCBI Official Synonym Full Names	non-SMC condensin II complex, subunit G2
NCBI Official Symbol	NCAPG2
NCBI Official Synonym Symbols	MTB; CAPG2; LUZP5; CAP-G2; hCAP-G2
UniProt Protein Name	Condensin-2 complex subunit G2
UniProt Synonym Protein Names	Chromosome-associated protein G2; CAP-G2; hCAP-G2; Leucine zipper protein 5; Non-SMC condensin II complex subunit G2
Protein Family	Condensin-2 complex
UniProt Gene Name	NCAPG2
UniProt Synonym Gene Names	LUZP5; CAP-G2; hCAP-G2
UniProt Entry Name	CNDG2_HUMAN
NCBI Protein Information	condensin-2 complex subunit G2; more than blood homolog; leucine zipper protein 5; chromosome-associated protein G2
UniProt Comments for NCAPG2	LUZP5: Regulatory subunit of the condensin-2 complex, a complex which establishes mitotic chromosome architecture and is involved in physical rigidity of the chromatid axis. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 7q36.3 Cellular Component: nucleoplasm; membrane; nucleus Molecular Function: protein binding; methylated histone residue binding Biological Process: chromosome condensation; mitosis; cell division; mitotic cell cycle; inner cell mass cell proliferation
Research Articles on NCAPG2	**1.** Microcephalin/MCPH1 associates with the Condensin II complex to function in homologous recombination repair

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