Anti-CNAP1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014606

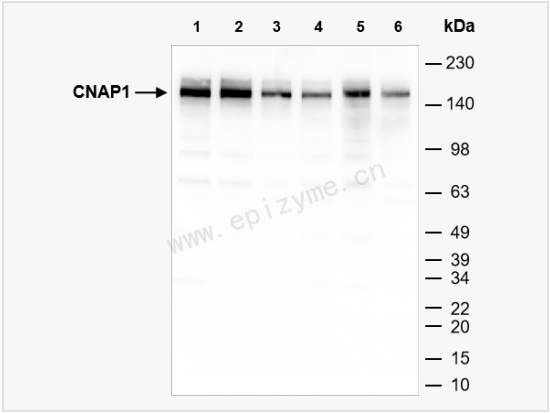
Product Information

Application	IF (Cell)/ICC, IHC-P/IF (Tissue-P), ELISA, WB
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	86B39A16
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CNAP1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CNAP1 Rabbit mAb [86B39A16] is for research use only and not for use in diagnostic or therapeutic procedures.

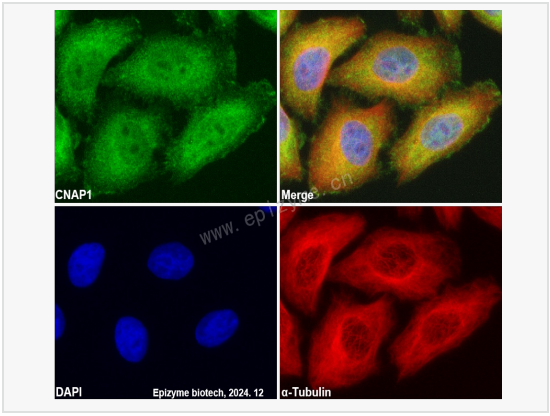
Protein Information

Synonyms	2810406C15Rik, 2810465G24Rik, CAP-D2, CAPD2, CEP2, CEP250, Chromosome condensation-related SMC-associated protein 1, Chromosome-associated protein D2, CNAP1, CND1, Condensin, Condensin complex subunit 1, eg7, hCAP-D2, hCAPD2, KIAA0159, mKIAA0159, NCAPD2, non-SMC condensin I complex, subunit D2, XCAP D2 homolog.
Calculated MW	Calculated MW: 157 kDa; Observed MW: 150 kDa
Uniprot ID	Q15021
Gene ID	5166
Background	CNAP1/hCAP-D2 is a regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condensed chromosomes.
Cellular Location	Nuclear and cytoplasmic.

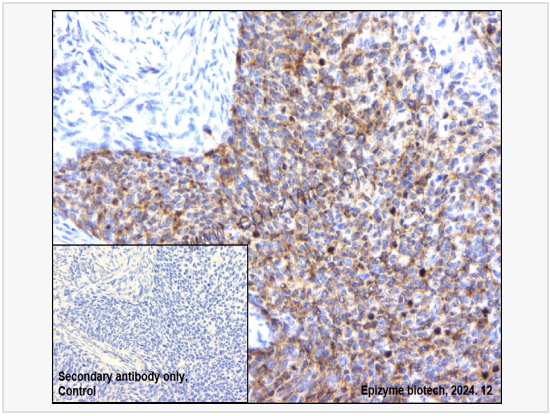
Validation Images



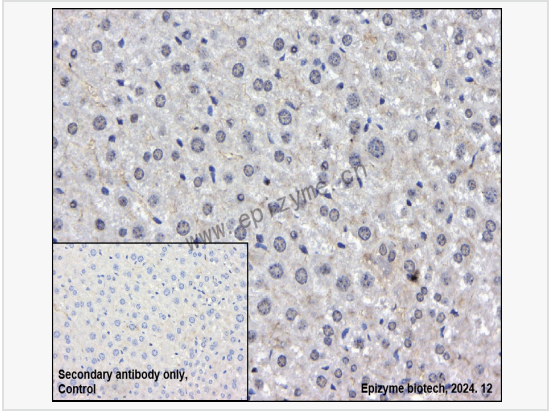
Western Blot - Anti-CNAP1 Rabbit mAb [86B39A16]
All lanes: R014606 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 157 kDa
Observed band size: 150 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-CNAP1 Rabbit mAb [86B39A16]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014606 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-CNAP1 Rabbit mAb [86B39A16]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014606 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CNAP1 Rabbit mAb [86B39A16]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014606 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.