

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 67655-1-Ig	<b>GenBank-Zugangsnummer:</b> BC024211	<b>Reinigungsmethode:</b> Protein-G-Reinigung
<b>Größe:</b> 150ul, Konzentration: 700 µg/ml von Nanodrop und 500 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 23397	<b>CloneNo.:</b> 3D2F11
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> non-SMC condensin I complex, subunit H	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 741 aa, 83 kDa	
<b>Immunogen Katalognummer:</b> AG27748	<b>Beobachtete Masse:</b> 83-100 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, WB, ELISA

### Getestete Reaktivität:

Human, Maus, Ratte

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB:** HeLa-Zellen, 4T1-Zellen, HEK-293-Zellen, Jurkat-Zellen, K-562-Zellen, NIH/3T3-Zellen

**IHC:** humanes Leberkarzinomgewebe, humanes Kolonkarzinomgewebe

**IF:** humanes Leberkarzinomgewebe,

## Hintergrundinformationen

Non-SMC condensin I complex subunit H (NCAPH) is one of the three non-SMC subunits in condensin I, which belongs to a recently defined superfamily of proteins termed kleisins. Another two non-SMC subunits, CAP-D2 and CAP-G, share a highly degenerate repeating motif known as HEAT repeat. Some studies show that each subunit is essential for viability and plays an important role in mitotic chromosome architecture and segregation. In recent years, researchers found that the high expression of NCAPH was associated with poor prognosis in patients with non-small cell lung cancer and prostate cancer. Downregulation of NCAPH inhibited the proliferation, migration, and invasion of several cancer cells significantly. Moreover, NCAPH was involved in the regulation of mature chromosome condensation and DNA damage. These data suggest that NCAPH may be a key carcinogen involved in the development and progression of human malignant tumors. ( PMID: 28300828, PMID: 33311486 )

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern.

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

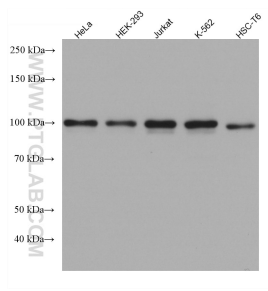
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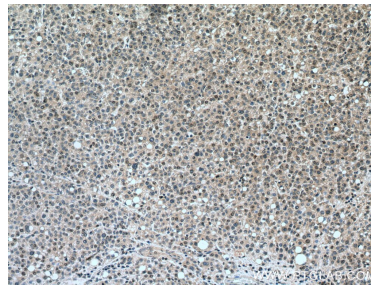
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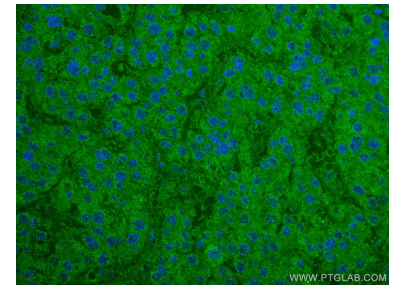
## Ausgewählte Validierungsdaten



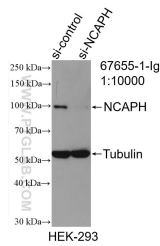
Various lysates were subjected to SDS PAGE followed by western blot with 67655-1-Ig (NCAPH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67655-1-Ig (NCAPH antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using NCAPH antibody (67655-1-Ig, Clone: 3D2F11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



WB result of NCAPH antibody (67655-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NCAPH transfected HEK-293 cells.