



Rabbit Anti-CAPH antibody

SL7780R

Product Name:	CAPH
Chinese Name:	染色体相关蛋白H抗体
Alias:	Barren Drosophila Homolog of 1; Barren homolog protein 1; BRRN; CAP H; CAPH; Chromosome associated protein H; Condensin complex subunit 2; Condensin subunit 2; Condesin; HCAP H; mCAP H; NCAPH; Non SMC condensin I complex subunit H; XCAP H homolog; CND2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	82kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BRRN1/CAPH:601-700/741
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of

type II topoisomerases.

Function:

Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.

Subunit:

Component of the condensin complex, which contains the SMC2 and SMC4 heterodimer, and three non SMC subunits that probably regulate the complex: NCAPH/BRRN1, NCAPD2/CAPD2 and NCAPG.

Subcellular Location:

CNucleus. Cytoplasm. Chromosome.

Tissue Specificity:

Widely expressed at low level. Expressed in proliferating cells.

Post-translational modifications:

Phosphorylated by CDK1. Its phosphorylation, as well as that of NCAPD2 and NCAPG subunits, activates the condensin complex and is required for chromosome condensation (By similarity).

Similarity:

Belongs to the CND2 (condensin subunit 2) family.

SWISS:

Q15003

Gene ID:

23397

Database links:

[Entrez Gene: 23397](#)Human

[Entrez Gene: 215387](#)Mouse

[Omim: 602332](#)Human

[SwissProt: Q15003](#)Human

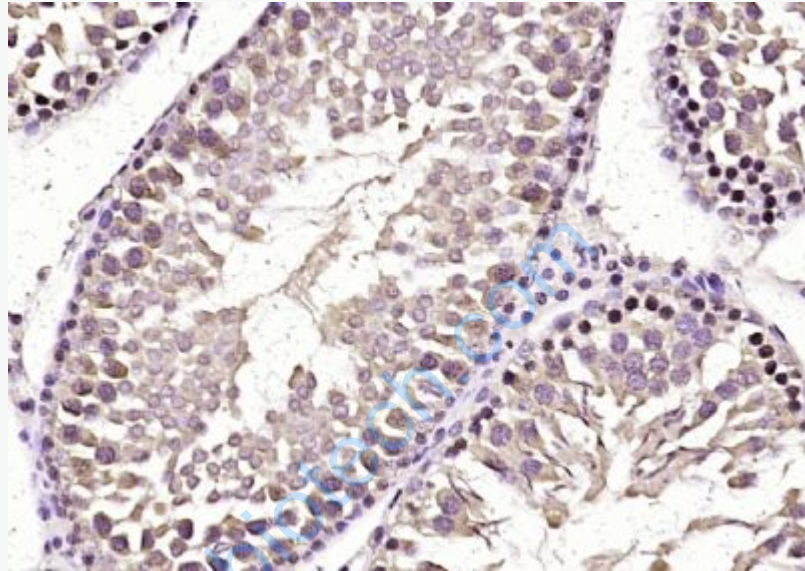
[SwissProt: Q8C156](#)Mouse

[Unigene: 308045](#)Human

[Unigene: 29786](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CAPH) Polyclonal Antibody, Unconjugated (SL7780R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.