10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CCNB1IP1 Antibody

Catalog # AP60761

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9NPC3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31544

Additional Information

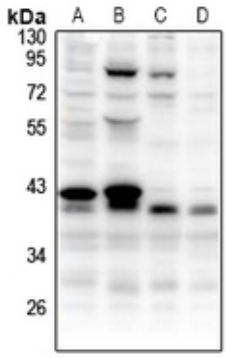
Gene ID	57820
Other Names	C14orf18; HEI10; E3 ubiquitin-protein ligase CCNB1IP1; Cyclin-B1-interacting protein 1; Human enhancer of invasion 10
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CCNB1IP1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

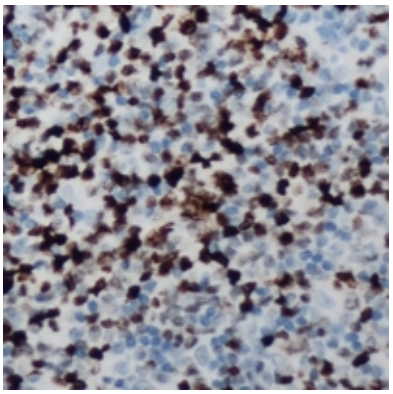
Name	CCNB1IP1
Synonyms	C14orf18, HEI10
Function	Ubiquitin E3 ligase that acts as a limiting factor for crossing-over during meiosis: required during zygonema to limit the colocalization of RNF212 with MutS-gamma-associated recombination sites and thereby establish early differentiation of crossover and non- crossover sites. Later, it is directed by MutL-gamma to stably accumulate at designated crossover sites. Probably promotes the dissociation of RNF212 and MutS-gamma to allow the progression of recombination and the implementation of the final steps of crossing over (By similarity). Modulates cyclin-B levels and participates in the regulation of cell cycle progression through the G2 phase. Overexpression causes delayed entry into mitosis.
Cellular Location	Nucleus. Chromosome. Note=Associates to the synaptonemal complex

Tissue Location	Highly expressed in heart. Detected at intermediate levels in liver and kidney, and at low levels in placenta, brain and lung.

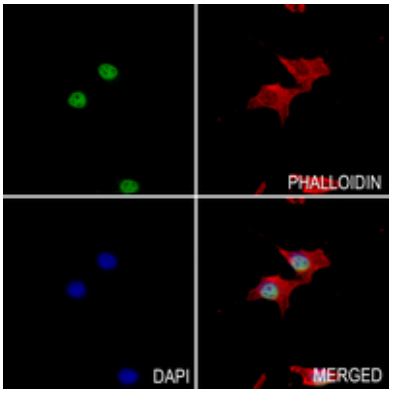
Images



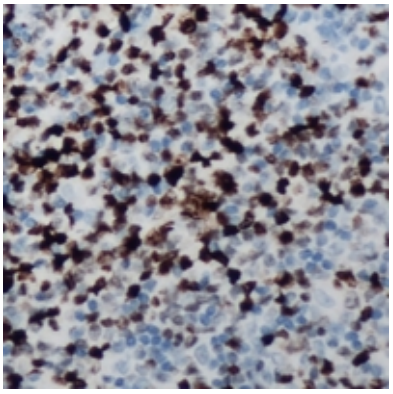
Western blot analysis of CCNB1IP1 expression in HEK293T (A), COS7 (B), CT26 (C), PC12 (D) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 40 kD)



Immunohistochemical analysis of CCNB1IP1 staining in human lymph node formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CCNB1IP1 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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