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Anti-Cytokine IK Antibody

Catalog # AP51280

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q13123
Reactivity	Human, Mouse, Rat, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65602

Additional Information

Gene ID	3550
Other Names	RED; RER; Protein Red; Cytokine IK; IK factor; Protein RER
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Cytokine IK. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 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	IK
Synonyms	RED {ECO:0000303|PubMed:10216252}, RER
Function	Involved in pre-mRNA splicing as a component of the spliceosome (PubMed:28781166). Auxiliary spliceosomal protein that regulates selection of alternative splice sites in a small set of target pre-mRNA species (Probable). Required for normal mitotic cell cycle progression (PubMed:22351768, PubMed:24252166). Recruits MAD1L1 and MAD2L1 to kinetochores, and is required to trigger the spindle assembly checkpoint (PubMed:22351768). Required for normal accumulation of SMU1 (PubMed:24945353).
Cellular Location	Nucleus. Nucleus, nucleoplasm. Chromosome. Cytoplasm, cytoskeleton, spindle pole. Note=Predominantly present throughout the nucleoplasm during prometaphase, metaphase and anaphase. Is also detected in nuclear foci that are not identical with Cajal bodies Starts to accumulate at chromosomes during telophase, and is nearly exclusively associated with chromosomes in newly divided cells (PubMed:24252166). Colocalizes with

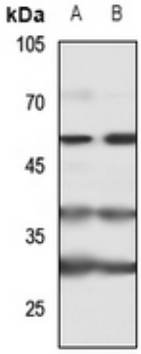
MAD1L1 at mitotic spindle poles during metaphase and anaphase (PubMed:22351768)

Tissue Location Ubiquitous..

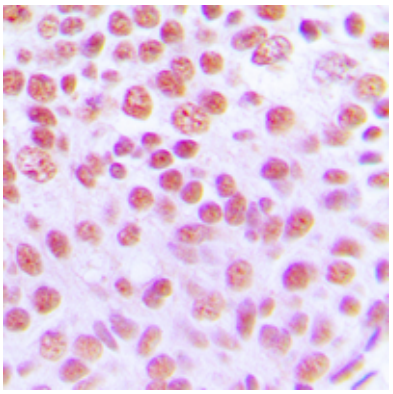
References

Assier E.,et al.Gene 230:145-154(1999).
Schmutz J.,et al.Nature 431:268-274(2004).
Krief P.,et al.Oncogene 9:3449-3456(1994).
Matsuoka S.,et al.Science 316:1160-1166(2007).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

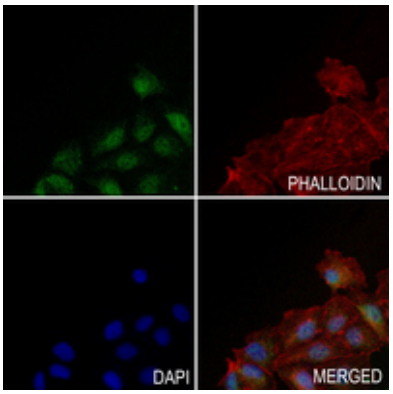
Images



Western blot analysis of Cytokine IK expression in mouse lung (A), mouse kidney (B) whole cell lysates. (Predicted band size: 65 kD; Observed band size: 66 kD)



Immunohistochemical analysis of Cytokine IK staining in human breast cancer 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 Cytokine IK staining in H460 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.