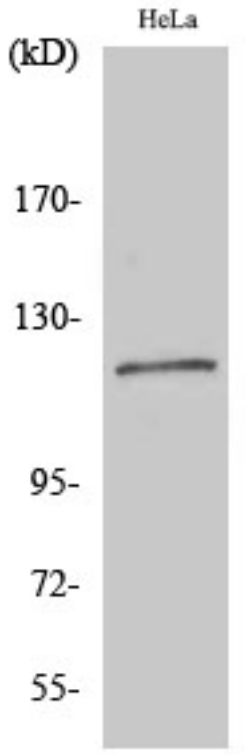
BubR1 Polyclonal Antibody

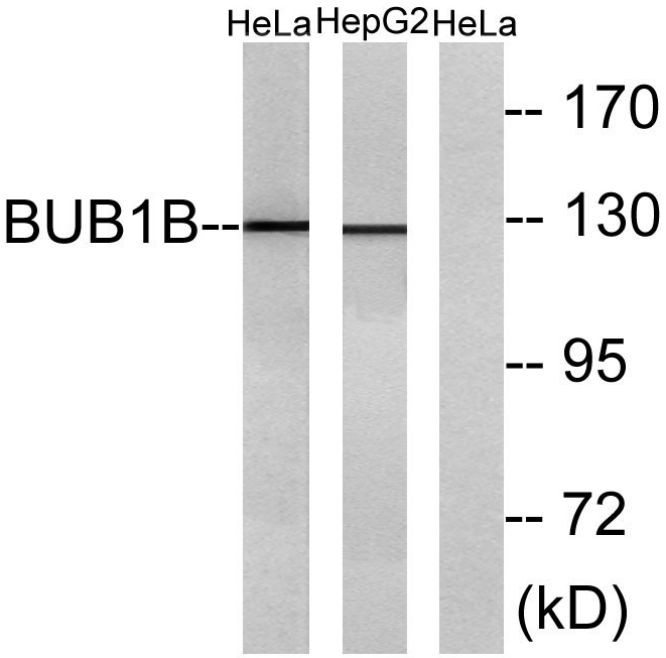
Catalog No	BYab-16670
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	BUB1B
Protein Name	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta
Immunogen	The antiserum was produced against synthesized peptide derived from human BUB1B. AA range:341-390
Specificity	BubR1 Polyclonal Antibody detects endogenous levels of BubR1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BUB1B; BUBR1; MAD3L; SSK1; Mitotic checkpoint serine/threonine-protein kinase BUB1 beta; MAD3/BUB1-related protein kinase; hBUBR1; Mitotic checkpoint kinase MAD3L; Protein SSK1
Observed Band	130kD
Cell Pathway	Cytoplasm. Nucleus. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasmic in interphase cells. Associates with the kinetochores in early prophase. Kinetochore localization requires BUB1, PLK1 and KNL1.
Tissue Specificity	Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Defects in BUB1B are associated with tumor formation.,disease:Defects in BUB1B are the cause of mosaic variegated aneuploidy syndrome (MVA) [MIM:257300]. MVA is a severe autosomal recessive developmental disorder characterized by mosaic aneuploidies, predominantly trisomies and monosomies, involving multiple different chromosomes and tissues. The proportion of aneuploid cells varies but is

	usually more than 25% and is substantially greater than in normal individuals. Affected individuals typically present with severe intrauterine growth retardation and microcephaly. Eye anomalies, mild dysmorphism, variable developmental delay, and a broad spectrum of additional congenital abnormalities and medical conditions may also occur. The risk of malignancy is high, with rhabdomyosarcoma, Wilms tumor and leukemia reported in seve
Background	This gene encodes a kinase involved in spindle checkpoint function. The protein has been localized to the kinetochore and plays a role in the inhibition of the anaphase-promoting complex/cyclosome (APC/C), delaying the onset of anaphase and ensuring proper chromosome segregation. Impaired spindle checkpoint function has been found in many forms of cancer. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using BubR1 Polyclonal Antibody



Western blot analysis of lysates from HeLa and HepG2 cells, treated with H2O2 100uM 30', using BUB1B Antibody. The lane on the right is blocked with the synthesized peptide.