

Product datasheet for **AP05109PU-N**

BubR1 (BUB1B) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1 - 10 µg/ml; Detects a 130 kDa band. Immunohistochemistry.
Reactivity:	Mouse
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein corresponding to amino acids 232 - 603 of the mouse Bub1b protein.
Specificity:	This antibody reacts to Bub1b.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	BUB1 mitotic checkpoint serine/threonine kinase B
Database Link:	O60566



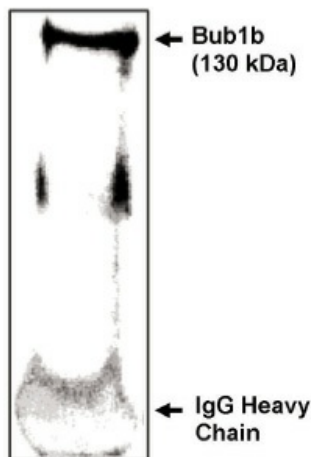
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Background:

Bub1, a mitotic checkpoint gene first identified in yeast, ensures proper chromosome segregation by delaying anaphase until chromosomes are properly aligned on the mitotic spindle. Mutations in the mitotic spindle assembly checkpoint genes, like yeast Bub1, cause cells to exit mitosis without proper chromosome attachment/alignment, resulting in aneuploidy. Aneuploidy is a form of genetic instability involved in cancer. Recently, a novel homologue of the murine Bub1 gene has been identified and named Bub1b. The yeast mitotic checkpoint pathway is unresolved, but the mammalian pathway remains even less clear. It is important to investigate the role of the Bub1 genes in the mammalian checkpoint as they have been implicated in carcinogenesis, namely colon carcinomas. The aneuploidy and chromosome instability characterizing some tumors is thought to be caused by mutations in Bub1.

Synonyms:

Protein SSK1, BUBR1, MAD3L, BUB1 beta

Product images:

Immunoprecipitation/ Western blot analysis using Bub1b-IN antibody on NIH/3T3 cells synchronized to obtain mostly mitotic cells as determined by flow cytometry.