

BUB1B / BubR1 Antibody (clone 2G5)

Mouse Monoclonal Antibody Catalog # ALS13281

Specification

BUB1B / BubR1 Antibody (clone 2G5) - Product Information

Application WB, IHC
Primary Accession O60566
Reactivity Human
Host Mouse
Clonality Monoclonal
Calculated MW 120kDa KDa

BUB1B / BubR1 Antibody (clone 2G5) - Additional Information

Gene ID 701

Other Names

Mitotic checkpoint serine/threonine-protein kinase BUB1 beta, 2.7.11.1, MAD3/BUB1-related protein kinase, hBUBR1, Mitotic checkpoint kinase MAD3L, Protein SSK1, BUB1B, BUBR1, MAD3L, SSK1

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

BUB1B / BubR1 Antibody (clone 2G5) is for research use only and not for use in diagnostic or therapeutic procedures.

BUB1B / BubR1 Antibody (clone 2G5) - Protein Information

Name BUB1B

Synonyms BUBR1, MAD3L, SSK1

Function

Essential component of the mitotic checkpoint. Required for normal mitosis progression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions is to inhibit the activity of the anaphase- promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. May play a role for tumor suppression.

Cellular Location

Cytoplasm. Nucleus. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Cytoplasmic in interphase cells. Associates with



the kinetochores in early prophase. Kinetochore localization requires BUB1, PLK1 and KNL1

Tissue Location

Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index

BUB1B / BubR1 Antibody (clone 2G5) - Protocols

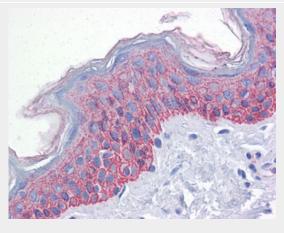
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BUB1B / BubR1 Antibody (clone 2G5) - Images

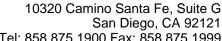


BUB1B monoclonal antibody (M02), clone 2G5 Western blot of BUB1B expression in HeLa NE.



Anti-BUB1B / BubR1 antibody IHC of human skin.

BUB1B / BubR1 Antibody (clone 2G5) - Background





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BUB1B / BubR1 Antibody (clone 2G5) - References

Donadelli R., et al. Biochem. Biophys. Res. Commun. 246:881-887(1998). Taylor S.S., et al. J. Cell Biol. 142:1-11(1998). Chan G.K.T., et al.J. Cell Biol. 143:49-63(1998). Cahill D.P., et al. Nature 392:300-303(1998). Davenport J.W., et al. Genomics 55:113-117(1999).