

Product Name: AURKB Mouse Monoclonal Antibody**Catalog #:** AMM80575

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA
Reactivity	Human, Rat, Mouse, Monkey, Rabbit
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	39kDa

Antigen Information

Gene Name	AURKB
Alternative Names	AURKB
Gene ID	9212.0
SwissProt ID	Q96GD4
Immunogen	Purified recombinant fragment of AURKB expressed in E. Coli.

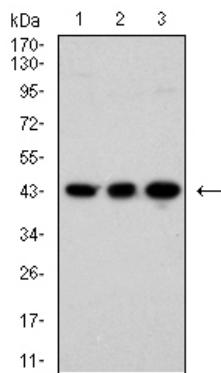
Background

AURKB (aurora kinase B, AIK2 or aurora-B), with 344-amino acid protein(about 39kDa),localizes to microtubules near kinetochores, specifically to the specialized microtubules called K-fibers. AURKB is a mitotic protein kinase, which phosphorylates histone H3 and regulates Chromosomal segregation during mitosis and meiosis. It may regulates several stages

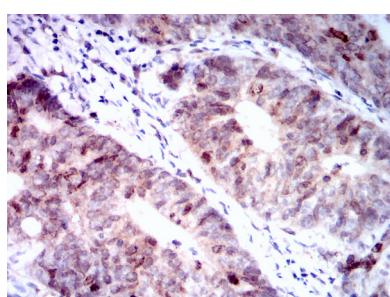
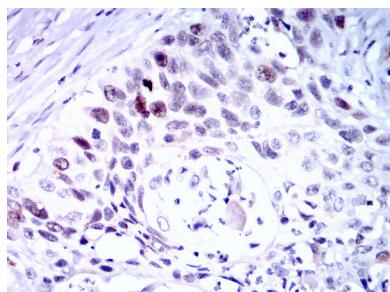
of mitosis such as centrosome separation, chromosome segregation and cytokinesis. Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. ARK-2 transcripts are present at high levels in human thymus and fetal liver. ARK-2 protein levels are maximal during both S and G2/M phases

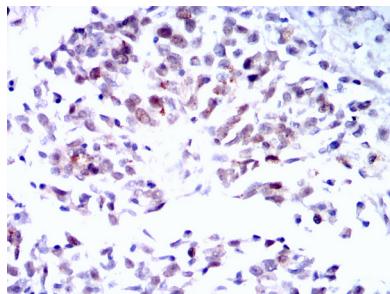
Research Area

Image Data

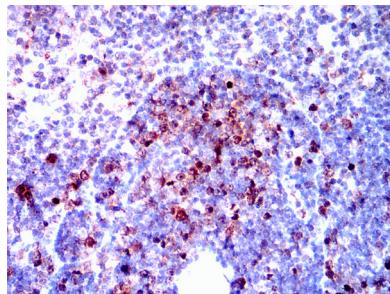


Western blot analysis using AURKB mouse mAb against F9 (1), COS7 (2), and C2C12 (3) cell lysate.

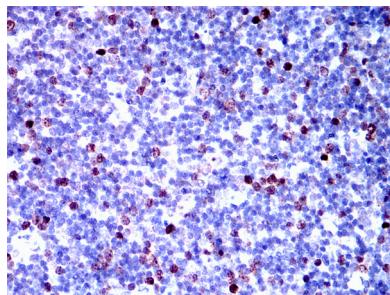




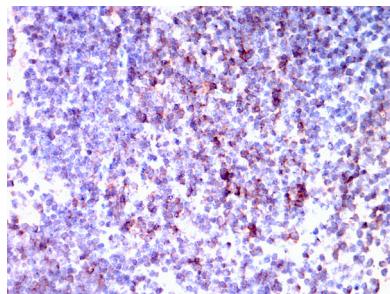
Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using AURKB mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rat thymus tissues using AURKB mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rabbit thymus tissues using AURKB mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissues using AURKB mouse mAb with DAB staining.