Data Sheet (Cat.No.TMAB-00173)

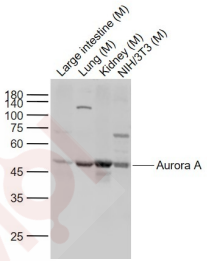
Anti-AURKA Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse
Molecular Weight:	Theoretical: 48 kDa. Actual: 48 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Large intestine (Mouse) Lysate at 40 µg Lane 2: Lung (Mouse) Lysate at 40 µg Lane 3: Kidney (Mouse) Lysate at 40 µg Lane 4: NIH/3T3 (Mouse) Cell Lysate at 30 µg Primary: Anti-Aurora A (TMAB-00173) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kDa Observed band size: 48 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: mouse Auroa A
Antigen Species:	Mouse
Gene ID:	20878
Uniprot ID:	P97477
Synonyms:	Aurora/IPL1-related kinase 1 (ARK-1;Aurora-related kinase 1);Aurora kinase A; Serine/threonine-protein kinase Ayk1;Serine/threonine-protein kinase 15;Breast tumor-amplified kinase;AIRK1;STK6;BTAK;IAK1;Serine/threonine-protein kinase aurora-A;AURKA; ARK1;STK15;AIK;AYK1;AURA;Serine/threonine-protein kinase 6;Aurora 2;Ipl1- and aurora-related kinase 1

Biology Area: Cell division,Tumor biomarkers,Spindle,Aurora

Research Background

Aurora A plays a role in cell cycle regulation during anaphase and/or telophase, in relation to the function of the centrosome/spindle pole region during chromosome segregation. Aurora A plays a key role during tumor development and progression and is overexpressed in many human cancers including breast, ovarian and colorectal. Aurora A is viewed as a potential target for anticancer drug treatment.
Aurora B is a mitotic protein kinase that phosphorylates histone H3 (probably on Serine 10), behaves as a chromosomal passenger protein, and may regulate several stages of mitosis such as centrosome separation, chromosome segregation and cytokinesis. It localizes to the inner centromere region from prophase to anaphase. The Aurora kinases, members of the Ser/Thr protein kinase family, associate with microtubules during chromosome movement and segregation. Aurora kinase C may play a part in organizing microtubules in relation to the function of the centrosome/spindle pole during mitosis. This protein is localized to centrosome from anaphase to cytokinesis. Expression is limited to testis in normal cells. Elevated expression levels are seen only in a subset of cancer cells such as HepG2, HuH7 and HeLa cells. Aurora-C expression is maximum at M phase.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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