

## KIAA1967 monoclonal antibody

Catalog: MB66478

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey

### BackGround:

Deleted in breast cancer gene 1 protein (DBC1) was originally identified by its localization to a region of chromosome 8p21 that is homozygously deleted in breast cancer. DBC1 is a large, nuclear protein with multiple functions in cell survival. It binds directly to the estrogen receptor  $\alpha$  (ER $\alpha$ ) hormone-binding domain in a ligand-independent manner and may be a key determinant of ligand-independent ER $\alpha$  expression and survival in human breast cancer cells. DBC1 can promote p53-mediated apoptosis by binding to and inhibiting the deacetylase activity of SirT1, resulting in increased p53 acetylation levels and activity. DBC1 may be an important regulator of heterochromatin formation as it binds SUV39H1 and inhibits its histone methyltransferase activity. Caspase-dependent processing activates the pro-apoptotic activity of DBC1 during Tumor Necrosis Factor- $\alpha$  (TNF- $\alpha$ )-mediated cell death signaling. This processing of DBC1 in response to TNF- $\alpha$  is an early event in the onset of apoptosis and results in relocalization of DBC1 to the cytoplasm. Overexpression of the processed, cytoplasmic form of DBC1 results in mitochondrial clustering and matrix condensation and sensitizes cells to TNF- $\alpha$ -mediated apoptosis.

### Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

### Molecular Weight:

~ 130 kDa

### Swiss-Prot:

Q8N163

### Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

### Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 -

1/50)

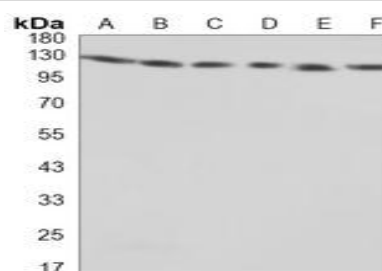
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

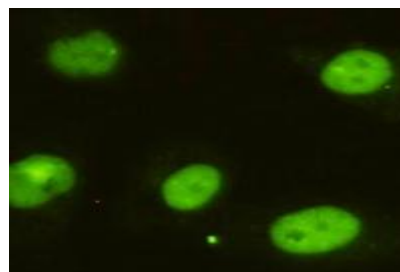
### Specificity:

Recognizes endogenous levels of KIAA1967 protein.

### DATA:



Western blot analysis of KIAA1967 expression in HeLa (A), A549 (B), Jurkat (C), C6 (D), NIH3T3 (E), COS7 (F) whole cell lysates.



Immunofluorescent analysis of KIAA1967 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

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