Revision 1

Store at -20C

#8774

KIBRA Antibody

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H Mk	Endogenous	135	Rabbit	#Q8IX03	23286

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

KIBRA Antibody recognizes endogenous levels of total KIBRA protein. Higher molecular weight bands detected by western blot are phosphorylated forms of KIBRA.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala585 of human KIBRA protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The Hippo pathway is an important evolutionarily conserved signaling pathway that controls organ size and tumor suppression by inhibiting cell proliferation and promoting apoptosis (1,2). An integral function of the Hippo pathway is to repress the activity of YAP (Yes-associated protein), a proposed oncogene whose activity is regulated by phosphorylation and subcellular localization (3,4). Recent studies have identified KIBRA as a novel regulator of Hippo signaling (5-7). KIBRA has been shown to regulate Hippo signaling through its interaction with tumor suppressors Merlin (Mer) and Expanded (Ex) in *Drosophila* (7) and by associating with large tumor suppressors LATS1 and LATS2 in humans (8). In humans, KIBRA is predominantly expressed in the kidney and brain (9) and has been shown to play a role in hippocampus-related memory performance (10-12). Recent studies have shown that phosphorylation of KIBRA is highest during mitosis and is controlled by aurora kinase and protein phosphatase 1 (13).

Background References

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2. Harvey, K.F. et al. (2003) *Cell* 114, 457-67.
3. Zhao, B. et al. (2010) *Genes Dev* 24, 862-74.
4. Zhao, B. et al. (2008) *Curr Opin Cell Biol* 20, 638-46.
5. Baumgartner, R. et al. (2010) *Dev Cell* 18, 309-16.
6. Genevet, A. et al. (2010) *Dev Cell* 18, 300-8.
7. Yu, J. et al. (2010) *Dev Cell* 18, 288-99.
8. Xiao, L. et al. (2011) *J Biol Chem* 286, 7788-96.
9. Kremerskothen, J. et al. (2003) *Biochem Biophys Res Commun* 300, 862-7.
10. Papassotiropoulos, A. et al. (2006) *Science* 314, 475-8.
11. Bates, T.C. et al. (2009) *Neurosci Lett* 458, 140-3.
12. Schaper, K. et al. (2008) *Neurobiol Aging* 29, 1123-5.
13. Xiao, L. et al. (2011) *J Biol Chem* 286, 36304-15.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **Mk:** Monkey

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