

**#8774** Store at -20°C

# KIBRA Antibody


**Cell Signaling**  
TECHNOLOGY®

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

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

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:100
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	KIBRA Antibody recognizes endogenous levels of total KIBRA protein. Higher molecular weight bands detected by western blot are phosphorylated forms of KIBRA.	
<b>Source / Purification</b>	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.	
<b>Background</b>	<p>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 <i>Drosophila</i> (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).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Pan, D. (2010) <i>Dev Cell</i> 19, 491-505.</li> <li>Harvey, K.F. et al. (2003) <i>Cell</i> 114, 457-67.</li> <li>Zhao, B. et al. (2010) <i>Genes Dev</i> 24, 862-74.</li> <li>Zhao, B. et al. (2008) <i>Curr Opin Cell Biol</i> 20, 638-46.</li> <li>Baumgartner, R. et al. (2010) <i>Dev Cell</i> 18, 309-16.</li> <li>Genevet, A. et al. (2010) <i>Dev Cell</i> 18, 300-8.</li> <li>Yu, J. et al. (2010) <i>Dev Cell</i> 18, 288-99.</li> <li>Xiao, L. et al. (2011) <i>J Biol Chem</i> 286, 7788-96.</li> <li>Kremerskothen, J. et al. (2003) <i>Biochem Biophys Res Commun</i> 300, 862-7.</li> <li>Papassotiropoulos, A. et al. (2006) <i>Science</i> 314, 475-8.</li> <li>Bates, T.C. et al. (2009) <i>Neurosci Lett</i> 458, 140-3.</li> <li>Schaper, K. et al. (2008) <i>Neurobiol Aging</i> 29, 1123-5.</li> <li>Xiao, L. et al. (2011) <i>J Biol Chem</i> 286, 36304-15.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected

**Trademarks and Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](https://cellsignal.com/trademarks) for more information.

**Limited Uses**

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.