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KIBRA Rabbit pAb

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Catalog # AP54550

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8IX03
Reactivity	Rat, Human, Mouse
Predicted	Dog, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125301
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIBRA
Epitope Specificity	351-450/1113
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Cell projection, ruffle membrane. Note=Co-localizes with PRKCZ in the perinuclear region.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KIBRA is a 1,113 amino acid protein that localizes to the cytoplasm and contains one C2 domain and two WW domains. Expressed in colon, brain, kidney and heart tissue, KIBRA is thought to interact with dendrin and, via this interaction, may play a role in collagen-induced signaling. Additionally, KIBRA, which exists as multiple alternatively spliced isoforms, is involved in memory performance and in the pathogenesis of Alzheimer's disease. The gene encoding KIBRA maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

Additional Information

Gene ID	23286
Other Names	Protein KIBRA, HBeAg-binding protein 3, Kidney and brain protein, KIBRA, WW domain-containing protein 1, WWC1 (HGNC:29435), KIAA0869, KIBRA
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

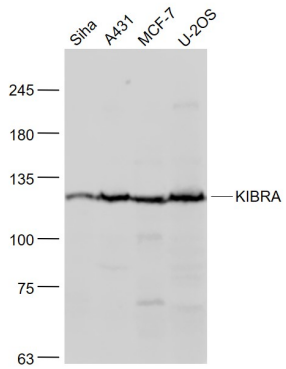
Protein Information

Name	WWC1 (HGNC:29435)
Synonyms	KIAA0869, KIBRA
Function	Regulator of the Hippo signaling pathway, also known as the Salvador-Warts-Hippo (SWH) pathway (PubMed:24682284). Enhances phosphorylation of LATS1 and YAP1 and negatively regulates cell proliferation and organ growth due to a suppression of the transcriptional activity of YAP1, the major effector of the Hippo pathway (PubMed:24682284). Along with NF2 can synergistically induce the phosphorylation of LATS1 and LATS2 and function in the regulation of Hippo signaling pathway (PubMed:20159598). Acts as a transcriptional coactivator of ESR1 which plays an essential role in DYNLL1-mediated ESR1 transactivation (PubMed:16684779). Regulates collagen-stimulated activation of the ERK/MAPK cascade (PubMed:18190796). Modulates directional migration of podocytes (PubMed:18596123). Plays a role in cognition and memory performance (PubMed:18672031). Plays an important role in regulating AMPA-selective glutamate receptors (AMPARs) trafficking underlying synaptic plasticity and learning (By similarity).
Cellular Location	Cytoplasm, perinuclear region. Nucleus. Cell projection, ruffle membrane. Cytoplasm, cytosol. Note=Colocalizes with PRKCZ in the perinuclear region
Tissue Location	Expressed in mammary epithelial cells and breast cancer cell lines. Found in the luminal epithelium surrounding the ducts in the normal breast. In the brain, expressed in somatodendritic compartment of neurons in the cortex and hippocampus and in the cerebellum it is found in the Purkinje cells and some granule cells (at protein level). Detected in brain, heart, colon and kidney. In the kidney, expressed in glomerular podocytes, in some tubules and in the collecting duct.

Background

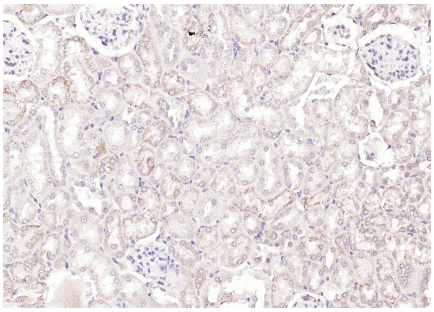
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Images



Sample:
Siha(Human) Cell Lysate at 30 ug
A431(Human) Cell Lysate at 30 ug
MCF-7(Human) Cell Lysate at 30 ug
U-2OS(Human) Cell Lysate at 30 ug
Primary: Anti- KIBRA (AP54550) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 125 kD
Observed band size:125 kD

Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer



(normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (AP54550) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.