SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-KIBRA antibody

Catalog Number: SL11570R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	KIBRA
Immunogen:	KLH conjugated synthetic peptide derived from human KIBRA: 351-450/1113
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat, (predicted: Dog, Cow, Rabbit, Sheep)
Predicted MW.:	125kDa
Subcellular Location:	The nucleus cytoplasmic The cell membrane
Background:	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. **Function:** KIBRA is a WW domain containing protein, first identified by

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	yeast 2-hybrid analysis of a human brain cDNA expression library. Gene expression studies have shown that KIBRA is expressed in memory-related brain structures including the hippocampus (dentate gyrus and the CA1 region) and the temporal lobe, 2 key regions for memory, and that the expression of specific KIBRA alleles is significantly associated with memory performance. **Subunit:** Homodimer. Interacts with DDN. Interacts with DYNLL1 and histone H3. The interaction with DYNLL1 is mandatory for the recruitment and transactivation functions of ESR1 or DYNLL1 to the target chromatin and the interaction with histone H3 ensures proper regulatory interaction of WWC1-DYNLL1-ESR1 complexes with target chromatin. Interacts (via WW domains) with DDR1 (via PPxY motif) in a collagen-regulated manner. Interacts with PRKCZ (via the protein kinase domain). Forms a tripartite complex with DDR1 and PRKCZ, but predominantly in the absence of collagen. Interacts (via the ADDV motif) with INADL (via PDZ domain 8). Interacts (via WW domains) with SYNPO (via PPxY motifs). Interacts with NF2 and SNX4. **Subcellular Location:** Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Cell projection, ruffle membrane. Note=Co-localizes with PRKCZ in the perinuclear region. **Tissue Specificity:** 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. **Similarity:** Belongs to the WWC family. KIBRA subfamily. Contains 1 C2 domain. Contains 2 WW domains. **Database links:** **Entrez Gene:** 23286 Human Omim: 610533 Human **SwissProt:** Q8IX03 Human **Unigene:** 484047 Human

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[VALIDATION IMAGES]

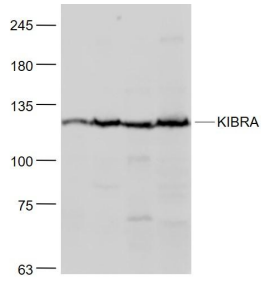


Figure 1. Sample: Siha(Human) Cell Lysate at 30 ug A431(Human) Cell Lysate at 30 ug MCF-7(Human) Cell Lysate at 30 ug U-2OS(Human) Cell Lysate at 30 ug Primary: Anti- KIBRA (SL11570R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 125 kD Observed band size:125 kD

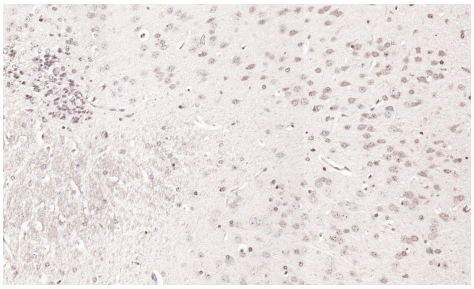


Figure 2. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

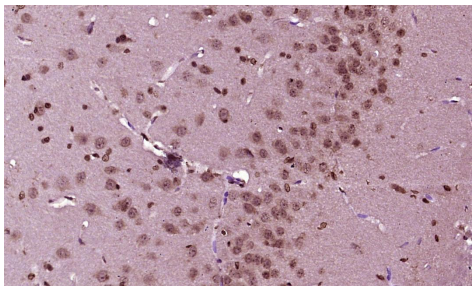


Figure 3. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

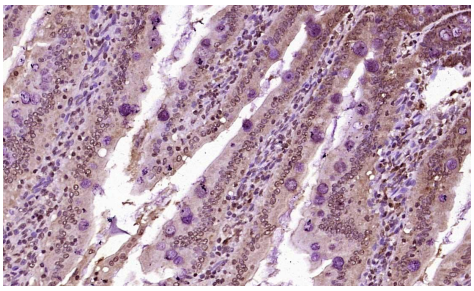


Figure 4. Paraformaldehyde-fixed, paraffin embedded (Rat small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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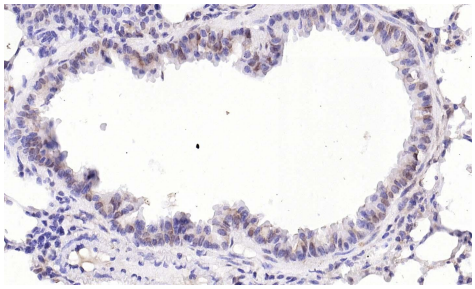


Figure 5. Paraformaldehyde-fixed, paraffin embedded (Mouse lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

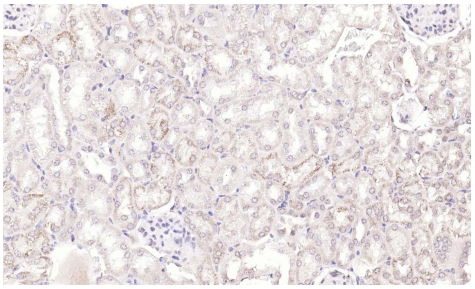


Figure 6. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

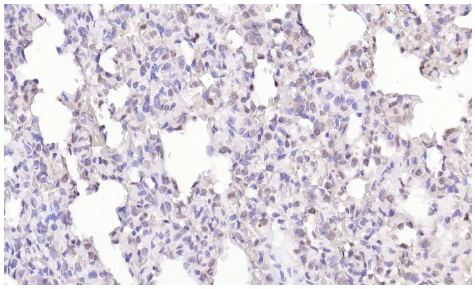


Figure 7. Paraformaldehyde-fixed, paraffin embedded (rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

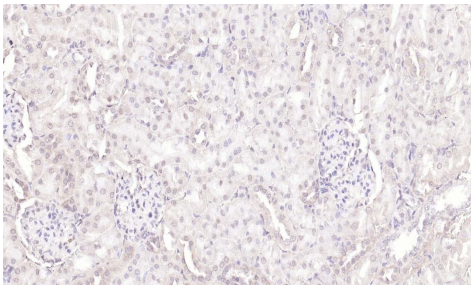


Figure 8. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

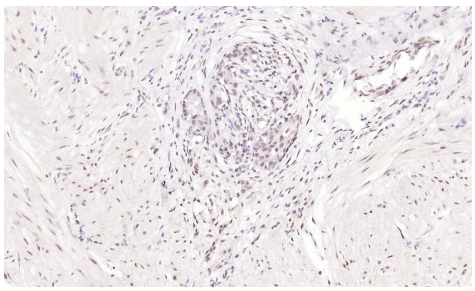


Figure 9. Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIBRA) Polyclonal Antibody, Unconjugated (SL11570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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