

**WWC1 / KIBRA Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS17127****Specification**

---

**WWC1 / KIBRA Antibody (N-Terminus) - Product Information**

Application	IHC, IF
Primary Accession	<a href="#">O8IX03</a>
Other Accession	<a href="#">23286</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125301

**WWC1 / KIBRA Antibody (N-Terminus) - Additional Information****Gene ID** 23286**Other Names**

WWC1, HBeAg-binding protein 3, HBEBP3, KIBRA, HBEBP36, KIAA0869, Kidney and brain protein, Protein KIBRA, Protein WWC1, WW domain-containing protein 1, WW and C2 domain containing 1

**Target/Specificity**

WWC1 antibody is human, mouse and rat reactive. At least three isoforms of WWC1 are known to exist; this antibody will detect all three isoforms.

**Reconstitution & Storage**

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

WWC1 / KIBRA Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**WWC1 / KIBRA Antibody (N-Terminus) - Protein Information****Name** WWC1**Synonyms** KIAA0869**Function**

Negative regulator of the Hippo signaling pathway, also known as the Salvador-Warts-Hippo (SWH) pathway (PubMed:<a href="http://www.uniprot.org/citations/24682284" target="\_blank">24682284</a>). 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:<a href="http://www.uniprot.org/citations/24682284" target="\_blank">24682284</a>). Along with NF2 can synergistically induce the phosphorylation of LATS1 and LATS2 and function in the regulation of Hippo signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/24682284" target="\_blank">24682284</a>).

href="http://www.uniprot.org/citations/20159598" target="\_blank">20159598</a>). Acts as a transcriptional coactivator of ESR1 which plays an essential role in DYNLL1-mediated ESR1 transactivation (PubMed:<a href="http://www.uniprot.org/citations/16684779" target="\_blank">16684779</a>). Regulates collagen-stimulated activation of the ERK/MAPK cascade (PubMed:<a href="http://www.uniprot.org/citations/18190796" target="\_blank">18190796</a>). Modulates directional migration of podocytes (PubMed:<a href="http://www.uniprot.org/citations/18596123" target="\_blank">18596123</a>). Plays a role in cognition and memory performance (PubMed:<a href="http://www.uniprot.org/citations/18672031" target="\_blank">18672031</a>). Plays an important role in regulating AMPA-selective glutamate receptors (AMPA-Rs) trafficking underlying synaptic plasticity and learning (By similarity).

#### **Cellular Location**

Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Cell projection, ruffle membrane. Cytoplasm, cytosol. Note=Colocalizes with PRKCZ in the perinuclear region

#### **Tissue Location**

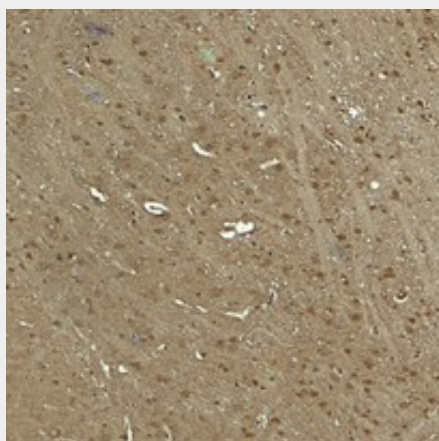
Expressed in mammary epithelial cells and breast cancer cell lines. Found in the luminal epithelium surrounding the ducts in the normal breast. In the brain, expressed in somatodendritic compartment of neurons in the cortex and hippocampus and in the cerebellum it is found in the Purkinje cells and some 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.

#### **WWC1 / KIBRA Antibody (N-Terminus) - Protocols**

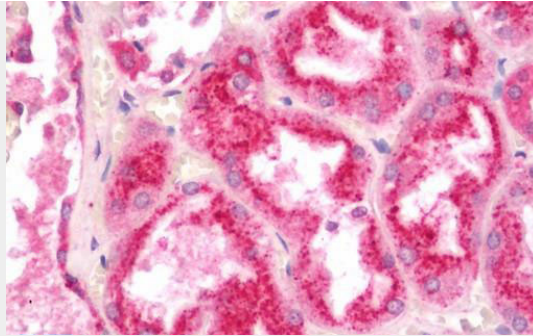
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

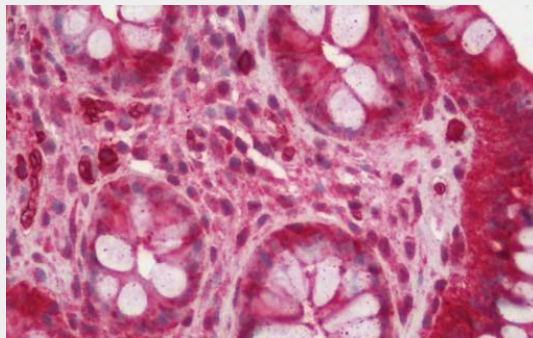
#### **WWC1 / KIBRA Antibody (N-Terminus) - Images**



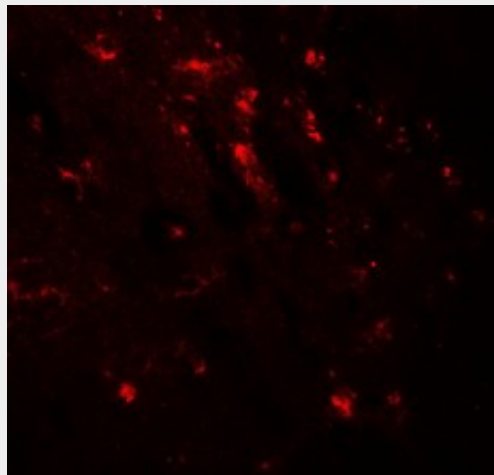
Immunohistochemistry of WWC1 in mouse brain tissue with WWC1 antibody at 5 ug/ml.



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of WWC1 in mouse brain tissue with WWC1 antibody at 20 ug/ml.

#### **WWC1 / KIBRA Antibody (N-Terminus) - Background**

Probable regulator of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway, a signaling pathway that plays a pivotal role in tumor suppression by restricting proliferation and promoting apoptosis. Along with NF2 can synergistically induce the phosphorylation of LATS1 and LATS2 and can probably function in the regulation of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway. Acts as a transcriptional coactivator of ESR1 which plays an essential role in DYNLL1-mediated ESR1 transactivation. Regulates collagen-stimulated activation of the ERK/MAPK cascade. Modulates directional migration of podocytes. Acts as a substrate for PRKCZ. Plays a role in cognition and memory performance.

#### **WWC1 / KIBRA Antibody (N-Terminus) - References**

Kremerskothen J., et al. Biochem. Biophys. Res. Commun. 300:862-867(2003).

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Schmutz J.,et al.Nature 431:268-274(2004).  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).  
Nagase T.,et al.DNA Res. 5:355-364(1998).