

**Anti-STK39 Rabbit Monoclonal Antibody**  
Catalog # ABO15938

**Specification**

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**Anti-STK39 Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, FC            |
| Primary Accession | <a href="#">Q9UEW8</a> |
| Host              | Rabbit                 |
| Isotype           | IgG                    |
| Reactivity        | Human                  |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-STK39 Rabbit Monoclonal Antibody . Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human.

**Anti-STK39 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 27347

**Other Names**

STE20/SPS1-related proline-alanine-rich protein kinase, Ste-20-related kinase, 2.7.11.1, DCHT, Serine/threonine-protein kinase 39, STK39

**Calculated MW**

65-70 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>FC 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human STK39

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-STK39 Rabbit Monoclonal Antibody - Protein Information**

**Name** STK39

## Function

Effector serine/threonine-protein kinase component of the WNK-SPAK/OSR1 kinase cascade, which is involved in various processes, such as ion transport, response to hypertonic stress and blood pressure (PubMed:<a href="http://www.uniprot.org/citations/16669787" target="\_blank">16669787</a>, PubMed:<a href="http://www.uniprot.org/citations/18270262" target="\_blank">18270262</a>, PubMed:<a href="http://www.uniprot.org/citations/21321328" target="\_blank">21321328</a>, PubMed:<a href="http://www.uniprot.org/citations/34289367" target="\_blank">34289367</a>). Specifically recognizes and binds proteins with a RFXV motif (PubMed:<a href="http://www.uniprot.org/citations/16669787" target="\_blank">16669787</a>, PubMed:<a href="http://www.uniprot.org/citations/21321328" target="\_blank">21321328</a>). Acts downstream of WNK kinases (WNK1, WNK2, WNK3 or WNK4): following activation by WNK kinases, catalyzes phosphorylation of ion cotransporters, such as SLC12A1/NKCC2, SLC12A2/NKCC1, SLC12A3/NCC, SLC12A5/KCC2 or SLC12A6/KCC3, regulating their activity (PubMed:<a href="http://www.uniprot.org/citations/21321328" target="\_blank">21321328</a>). Mediates regulatory volume increase in response to hyperosmotic stress by catalyzing phosphorylation of ion cotransporters SLC12A1/NKCC2, SLC12A2/NKCC1 and SLC12A6/KCC3 downstream of WNK1 and WNK3 kinases (PubMed:<a href="http://www.uniprot.org/citations/12740379" target="\_blank">12740379</a>, PubMed:<a href="http://www.uniprot.org/citations/16669787" target="\_blank">16669787</a>, PubMed:<a href="http://www.uniprot.org/citations/21321328" target="\_blank">21321328</a>). Phosphorylation of Na-K-Cl cotransporters SLC12A2/NKCC1 and SLC12A2/NKCC1 promote their activation and ion influx; simultaneously, phosphorylation of K-Cl cotransporters SLC12A5/KCC2 and SLC12A6/KCC3 inhibit their activity, blocking ion efflux (PubMed:<a href="http://www.uniprot.org/citations/16669787" target="\_blank">16669787</a>, PubMed:<a href="http://www.uniprot.org/citations/19665974" target="\_blank">19665974</a>, PubMed:<a href="http://www.uniprot.org/citations/21321328" target="\_blank">21321328</a>). Acts as a regulator of NaCl reabsorption in the distal nephron by mediating phosphorylation and activation of the thiazide-sensitive Na-Cl cotransporter SLC12A3/NCC in distal convoluted tubule cells of kidney downstream of WNK4 (PubMed:<a href="http://www.uniprot.org/citations/18270262" target="\_blank">18270262</a>). Mediates the inhibition of SLC4A4, SLC26A6 as well as CFTR activities (By similarity). Phosphorylates RELT (By similarity).

## Cellular Location

Cytoplasm. Nucleus. Note=Nucleus when caspase-cleaved.

## Tissue Location

Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.

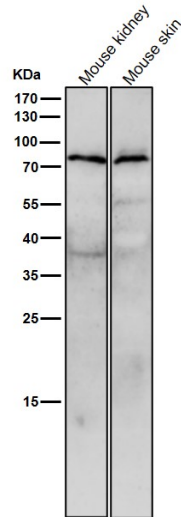
## Anti-STK39 Rabbit Monoclonal Antibody - Protocols

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

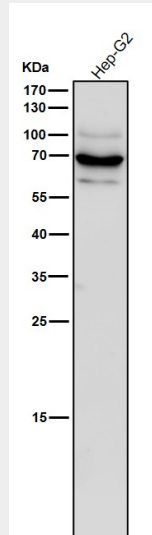
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-STK39 Rabbit Monoclonal Antibody - Images

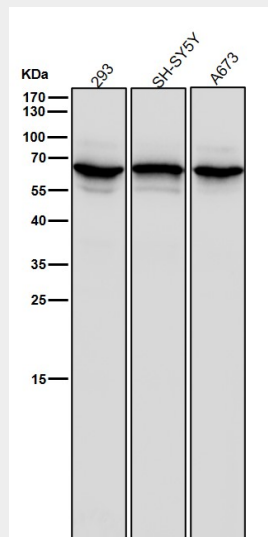




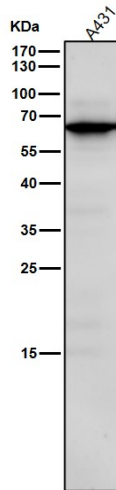
All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



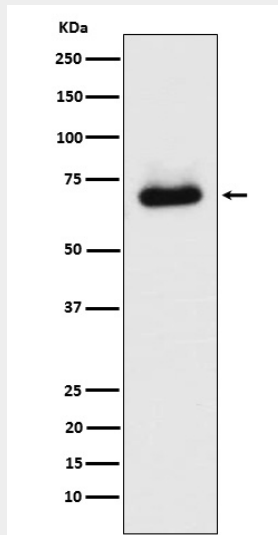
All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



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Western blot analysis of STK39 expression in HepG2 cell lysate.