## For Research Use Only

## STK39 Recombinant antibody

Catalog Number:83081-3-RR



**Purification Method:** 

IF/ICC 1:125-1:500

Positive Controls:

IHC: mouse brain tissue,

IF/ICC: HepG2 cells,

**Basic Information** 

Catalog Number: GenBank Accession Number:

83081-3-RR BC166614 Protein A purification GeneID (NCBI): Size: CloneNo.:

100ul, Concentration: 1000 ug/ml by 27347 230382G12 Nanodrop: **UNIPROT ID:** Recommended Dilutions: Q9UEW8 IHC 1:50-1:500

Rabbit Full Name: Isotype: serine threonine kinase 39 (STE20/SPS1 homolog, yeast) IgG

Immunogen Catalog Number: Calculated MW: AG34503 59 kDa

**Applications** 

**Tested Applications:** 

IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

**Background Information** 

STK39 (Serine/Threonine Kinase 39) is a proline- and alanine-rich Ste20-related kinase (also named as SPAK), which is composed of a short N-terminal proline and alanine repeats (PAPA box), a kinase catalytic domain and a Cterminal regulatory domain (PMID: 16382158). In mammalians, STK39 plays an important role in ion homeostasis by regulating the cation chloride cotransporters' activities, which is crucial for the modulation of renal salt transport and blood pressure (PMID: 33500714). Notably, STK39 is also implicated in the regulation of tumor cell proliferation, migration, and invasion in multiple cancers, including osteosarcoma and cervical cancer (PMID: 34335956).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

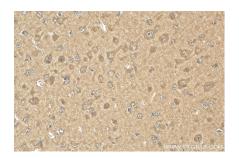
Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

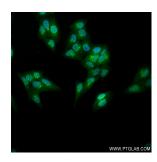
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

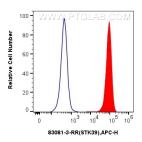
## **Selected Validation Data**



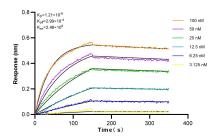
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83081-3-RR (STK39 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using STK39 antibody (83081-3-RR, Clone: 230382G12 ) at dilution of 1:250 and CoraLite@488-Conjugated Goat Anti-Mouse  $\lg G(H+L)$  (SA00013-1).



1x10^6 Daudi cells were intracellularly stained with 0.25 ug Anti-Human STK39 (83081-3-RR, Clone:230382G12) and APC-Conjugated Goat Anti-Rabbit 1gG (H+L)(red), or 0.25 ug Rabbit 1gG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLL) kinetic assays of 83081-3-RR against Human STK39 were performed. The affinity constant is 1.21 nM.