

STK39 Recombinant antibody

Catalog Number: 83081-2-RR

Basic Information

Catalog Number:

83081-2-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG34503

GenBank Accession Number:

BC166614

GeneID (NCBI):

27347

UNIPROT ID:

Q9UEW8

Full Name:

serine threonine kinase 39
(STE20/SPS1 homolog, yeast)

Calculated MW:

59 kDa

Observed MW:

62 kDa

Purification Method:

Protein A purification

CloneNo.:

230382G9

Recommended Dilutions:

WB 1:2000-1:10000

IF-P 1:50-1:500

IF/ICC 1:250-1:1000

Applications

Tested Applications:

WB, IF/ICC, IF-P, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : Jurkat cells, MCF-7 cells, SH-SY5Y cells, HEK-293T cells, HepG2 cells, rat brain tissue

IF-P : mouse brain tissue,

IF/ICC : NIH/3T3 cells,

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 C-terminal regulatory domain (PMID: 16382158). In mammals, 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:

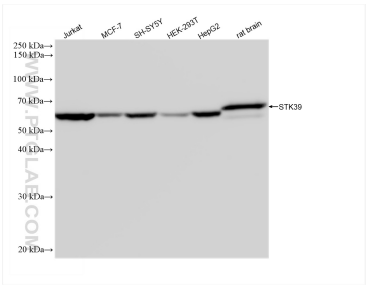
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

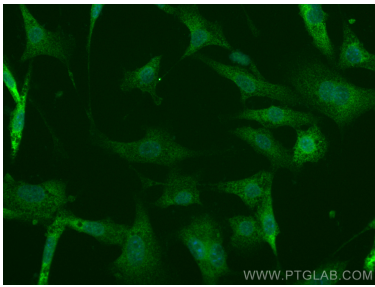
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

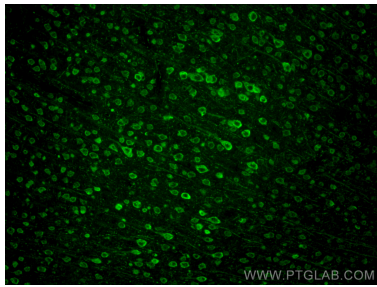
Selected Validation Data



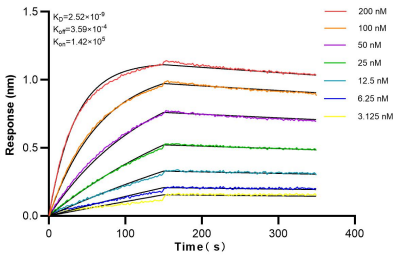
Various lysates were subjected to SDS PAGE followed by western blot with 83081-2-RR (STK39 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using STK39 antibody (83081-2-RR, Clone: 230382G9) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using STK39 antibody (83081-2-RR, Clone: 230382G9) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83081-2-RR against Human STK39 were performed. The affinity constant is 2.52 nM.