

For Research Use Only

# CoraLite® Plus 488-conjugated STK39 Recombinant antibody

Catalog Number:CL488-83081-2



## Basic Information

**Catalog Number:**

CL488-83081-2

**Size:**

1000 µg/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:**

IF-P 1:50-1:500

IF/ICC 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, IF-P

**Species Specificity:**

human, rat

**Positive Controls:**

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. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

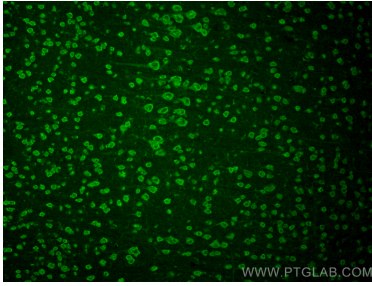
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

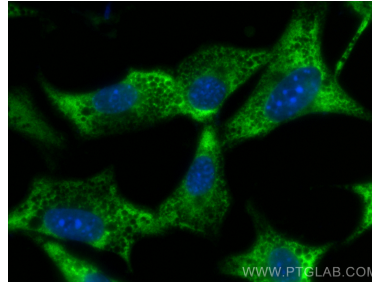
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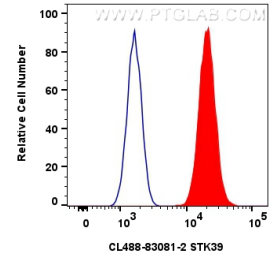
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CoraLite® Plus 488 STK39 antibody (CL488-83081-2, Clone: 230382G9) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using CoraLite® Plus 488 STK39 antibody (CL488-83081-2, Clone: 230382G9) at dilution of 1:200.



1x10<sup>6</sup> Daudi cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Stk39 Recombinant Antibody (CL488-83081-2, Clone:230382G9)(red), or 0.8 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).