

For Research Use Only

# CoraLite® Plus 488-conjugated STK39 Recombinant antibody

Catalog Number:CL488-83081-2



## Basic Information

<b>Catalog Number:</b> CL488-83081-2	<b>GenBank Accession Number:</b> BC166614	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 27347	<b>CloneNo.:</b> 230382G9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UEW8	<b>Recommended Dilutions:</b> IF-P 1:50-1:500 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG34503	<b>Calculated MW:</b> 59 kDa	
	<b>Observed MW:</b> 62 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IF-P	<b>Positive Controls:</b> IF-P : mouse brain tissue, IF/ICC : NIH/3T3 cells,
<b>Species Specificity:</b> human, rat	

## 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).

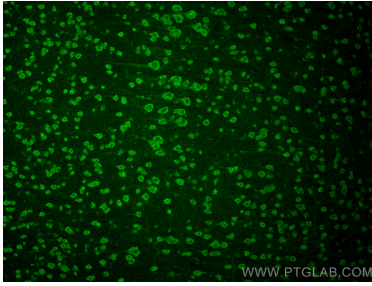
## Storage

**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

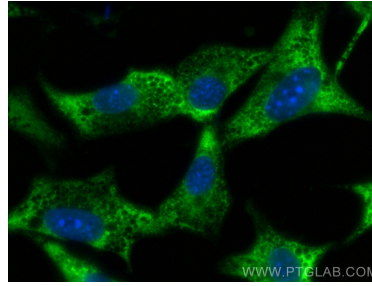
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

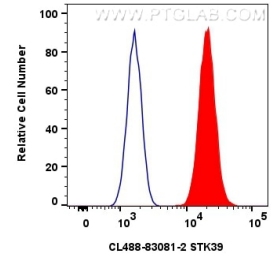
## Selected Validation Data



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).