

STK39 Recombinant antibody

Catalog Number: 83081-3-RR

Basic Information

Catalog Number: 83081-3-RR	GenBank Accession Number: BC166614	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 27347	CloneNo.: 230382G12
Source: Rabbit	UNIPROT ID: Q9UEW8	Recommended Dilutions: IHC 1:50-1:500 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	
Immunogen Catalog Number: AG34503	Calculated MW: 59 kDa	

Applications

Tested Applications: IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	IHC : mouse brain tissue, IF/ICC : HepG2 cells,
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 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

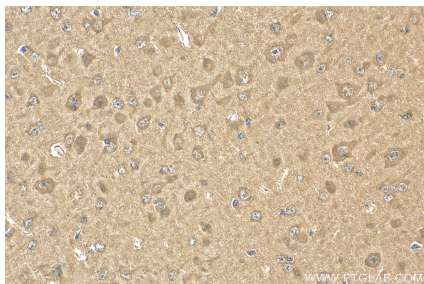
For technical support and original validation data for this product please contact:

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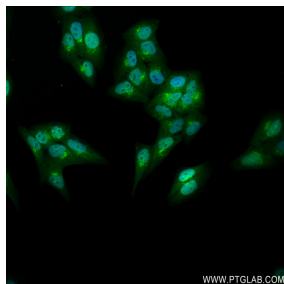
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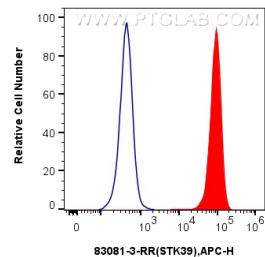
Selected Validation Data



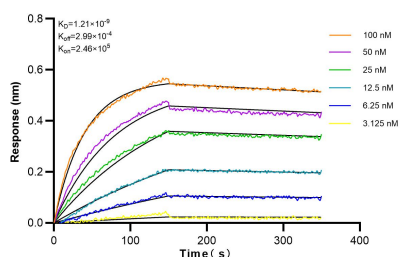
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83081-3-RR (STK39 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



1×10^6 Daudi cells were intracellularly stained with 0.25 μ g Anti-Human STK39 (83081-3-RR, Clone:230382G12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Bioluminescence resonance energy transfer (BLI) kinetic assays of 83081-3-RR against Human STK39 were performed. The affinity constant is 1.21 nM.