OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA306666

STK39 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Stk39 antibody was raised against a 19 amino acid peptide from near the carboxy terminus of human Stk39.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	serine/threonine kinase 39
Database Link:	NP_037365 Entrez Gene 53416 MouseEntrez Gene 27347 Human Q9UEW8

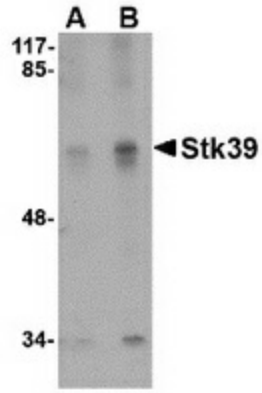
View online »

Background: The serine/threonine kinase Stk39 belongs to the STE20 family, a group of kinases that are known to interact with inflammation-related kinases (such as p38, JNK, NKCC1, PKC-theta, WNK and MLCK), and with transcription factor AP-1. The STE 20 family is involved in diverse biological phenomena, including cell differentiation, cell transformation/ proliferation, cytoskeleton rearrangement, and the regulation of ion transporters. STK39 contains an N-terminal series of proline and alanine repeats (PAPA box), followed by a serine/threonine kinase catalytic domain and is abundantly expressed in the brain. STK39 is activated in response to hypotonic stress, leading to phosphorylation of several cation-chloride-coupled co-transporters. The catalytically active kinase specifically activates the p38 MAP kinase pathway, and its interaction with p38 decreases upon cellular stress, suggesting that this kinase may serve as an intermediate in the response to cellular stress. Recent studies show that STK39 tend to be a novel candidate gene for autism and hypertension.

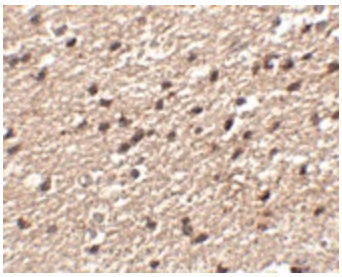
Synonyms: DCHT; PASK; SPAK

Protein Families: Druggable Genome, Protein Kinase

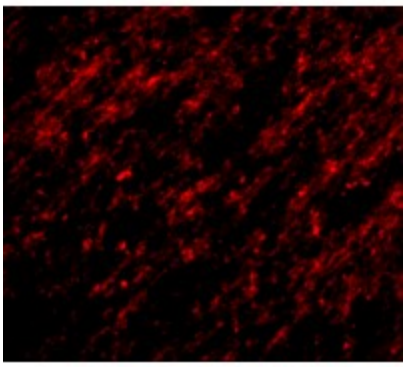
Product images:



Western blot analysis of Stk39 in SK-N-SH cell lysate with Stk39 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of Stk39 in human brain tissue with Stk39 antibody at 2.5 ug/ml.



Immunofluorescence of stk39 in human brain tissue with stk39 antibody at 20 ug/mL.