SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-STK38 antibody

Catalog Number: SL6257R

FOR RESEARCH USE ONLY

[DATASHEET]

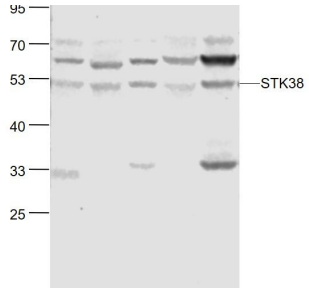
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	STK38
Immunogen:	KLH conjugated synthetic peptide derived from human STK38: 31-130/465
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse (predicted:Rat,Chicken,Dog,Pig,Cow,Horse,GuineaPig)
Predicted MW.:	51kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	STK38 belongs to the NDR family of serine/threonine protein kinases. NDR kinases require the phosphorylation of conserved Ser/Thr residues for activation. NDR family members have two unique stretches of primary sequence: an N-terminal regulatory (NTR) domain and an insert of several residues between subdomains VII and VIII of the kinase domain. The kinase domain insert functions as an auto-inhibitory sequence (AIS), while binding of the co-activator MOB (Mps-one binder) proteins to the NTR domain releases NDR kinases from inhibition of autophosphorylation. STK38 negatively regulates the activation of MEKK1/2 by direct interaction with the catalytic domain of MEKK1/2. The negative regulation of MEKK1/2 is not due to its phosphorylation by STK38.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

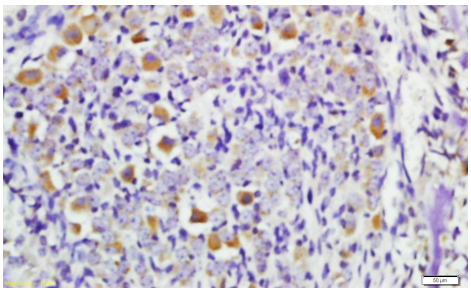
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	Function: Negative regulator of MAP3K1/2 signaling. Converts MAP3K2 from its phosphorylated form to its nonphosphorylated form and inhibits autophosphorylation of MAP3K2. **Subunit:** Homodimeric S100B binds two molecules of STK38. **Subcellular Location:** Nucleus. Cytoplasm. **Tissue Specificity:** Ubiquitously expressed with highest levels observed in peripheral blood leukocytes. **Post-translational modifications:** ISGylated (Probable). Phosphorylated by STK3/MST2 and this is enhanced by MOBKL1B. **Similarity:** Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 11329 Human **Entrez Gene:** 106504 Mouse Omim: 606964 Human **SwissProt:** Q15208 Human **SwissProt:** Q91VJ4 Mouse **Unigene:** 409578 Human **Unigene:** 439986 Mouse

[VALIDATION IMAGES]



Sample:
Spleen (Mouse) Lysate at 40 ug
Lung (Mouse) Lysate at 40 ug
Thymus (Mouse) Lysate at 40 ug
Testis (Mouse) Lysate at 40 ug
A431(Human) Cell Lysate at 30 ug
Primary: Anti-STK38 (SL6257R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 51 kD
Observed band size: 51 kD



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-STK38 Polyclonal Antibody, Unconjugated(SL6257R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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