

**STK4 Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a partial recombinant STK4.****Catalog # AT4089a****Specification**

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**STK4 Antibody (monoclonal) (M02) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">Q13043</a>
Other Accession	<a href="#">NM_006282</a>
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	55630

**STK4 Antibody (monoclonal) (M02) - Additional Information****Gene ID** 6789**Other Names**

Serine/threonine-protein kinase 4, Mammalian STE20-like protein kinase 1, MST-1, STE20-like kinase MST1, Serine/threonine-protein kinase Krs-2, Serine/threonine-protein kinase 4 37kDa subunit, MST1/N, Serine/threonine-protein kinase 4 18kDa subunit, MST1/C, STK4, KRS2, MST1

**Target/Specificity**

STK4 (NP\_006273, 391 a.a. ~ 485 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

STK4 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

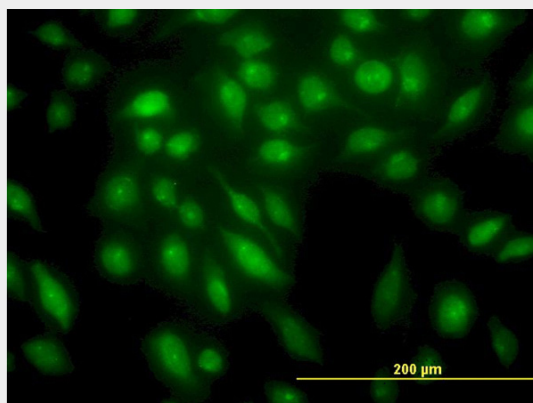
**STK4 Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

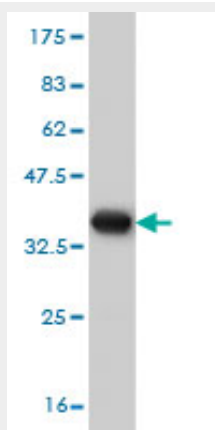
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

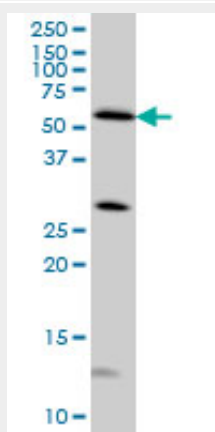
## STK4 Antibody (monoclonal) (M02) - Images



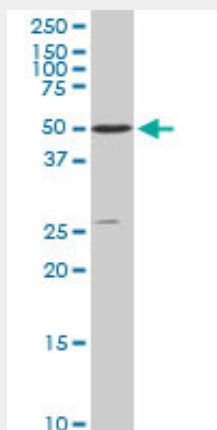
Immunofluorescence of monoclonal antibody to STK4 on HeLa cell. [antibody concentration 25 ug/ml]



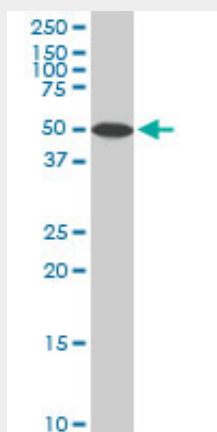
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.19 KDa) .



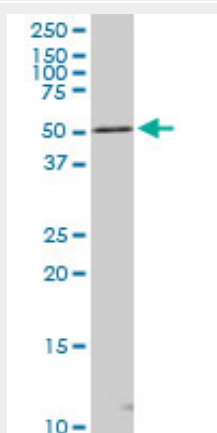
STK4 monoclonal antibody (M02), clone 4F4 Western Blot analysis of STK4 expression in HeLa (Cat # AT4089a )



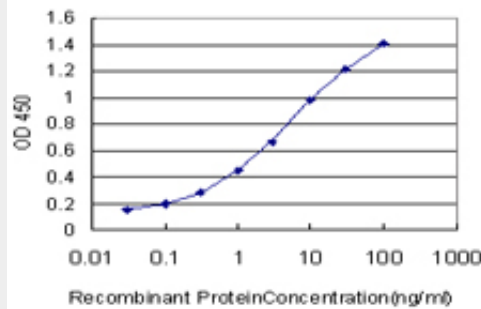
STK4 monoclonal antibody (M02), clone 4F4. Western Blot analysis of STK4 expression in PC-12 (Cat # AT4089a )



STK4 monoclonal antibody (M02), clone 4F4. Western Blot analysis of STK4 expression in Raw 264.7 (Cat # AT4089a )



STK4 monoclonal antibody (M02), clone 4F4. Western Blot analysis of STK4 expression in NIH/3T3 (Cat # AT4089a )



Detection limit for recombinant GST tagged STK4 is approximately 0.1ng/ml as a capture antibody.

### **STK4 Antibody (monoclonal) (M02) - Background**

The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and it's possible that this protein induces the chromatin condensation observed in this process.

### **STK4 Antibody (monoclonal) (M02) - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Role of the tumor suppressor RASSF2 in regulation of MST1 kinase activity. Song H, et al. Biochem Biophys Res Commun, 2010 Jan 1. PMID 19962960. Phosphoinositide 3-kinase/Akt inhibits MST1-mediated pro-apoptotic signaling through phosphorylation of threonine 120. Yuan Z, et al. J Biol Chem, 2010 Feb 5. PMID 19940129. MST kinases monitor actin cytoskeletal integrity and signal via c-Jun N-terminal kinase stress-activated kinase to regulate p21Waf1/Cip1 stability. Densham RM, et al. Mol Cell Biol, 2009 Dec. PMID 19822666. Mammalian BTBD12/SLX4 assembles a Holliday junction resolvase and is required for DNA repair. Svendsen JM, et al. Cell, 2009 Jul 10. PMID 19596235.