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STK38 Antibody (clone 6F1)

Mouse Monoclonal Antibody

Catalog # ALS14430

Specification

STK38 Antibody (clone 6F1) - Product Information

Application	**WB, IHC**
Primary Accession	Q15208
Reactivity	**Human, Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**54kDa KDa**

STK38 Antibody (clone 6F1) - Additional Information

Gene ID 11329

Other Names
Serine/threonine-protein kinase 38, 2.7.11.1, NDR1 protein kinase, Nuclear Dbf2-related kinase 1, STK38 {ECO:0000312|EMBL:AAH12085.1}

Target/Specificity
Human STK38

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

Precautions
STK38 Antibody (clone 6F1) is for research use only and not for use in diagnostic or therapeutic procedures.

STK38 Antibody (clone 6F1) - Protein Information

Name STK38 {ECO:0000303|PubMed:17906693, ECO:0000312|HGNC:HGNC:17847}

Function
Serine/threonine-protein kinase that acts as a negative regulator of MAP3K1/2 signaling (PubMed:12493777, PubMed:15197186, PubMed:17906693, PubMed:7761441). Converts MAP3K2 from its phosphorylated form to its non-phosphorylated form and inhibits autophosphorylation of MAP3K2 (PubMed:12493777, PubMed:15197186, PubMed:17906693, PubMed:7761441). Acts as an ufmylation 'reader' in a kinase-independent manner: specifically recognizes and binds mono- ufmylated histone H4 in response to DNA damage,

promoting the recruitment of SUV39H1 to the double-strand breaks, resulting in ATM activation (PubMed:32537488).

Cellular Location
Nucleus. Cytoplasm. Chromosome Note=Localizes to DNA double-strand breaks in response to DNA damage

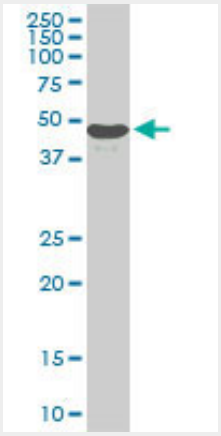
Tissue Location
Ubiquitously expressed with highest levels observed in peripheral blood leukocytes.

STK38 Antibody (clone 6F1) - Protocols

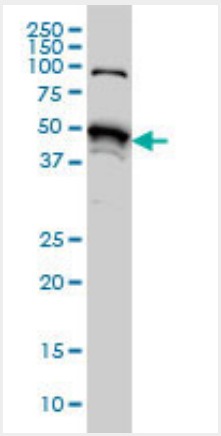
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STK38 Antibody (clone 6F1) - Images



Antibody ALS14430, Western blot of STK38 expression in PC-12.



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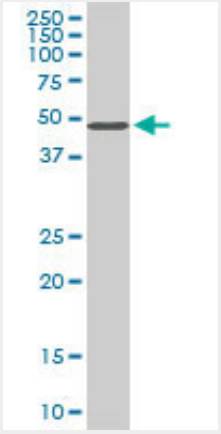
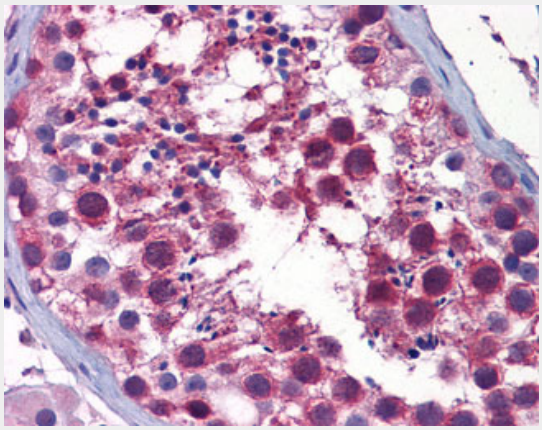
Antibody ALS14430, Western blot of STK38 expression in HeLa NE.



Antibody ALS14430, Western blot of STK38 expression in NIH/3T3.



Anti-STK38 antibody IHC of human testis.

STK38 Antibody (clone 6F1) - Background

Negative regulator of MAP3K1/2 signaling. Converts MAP3K2 from its phosphorylated form to its non-phosphorylated form and inhibits autophosphorylation of MAP3K2.

STK38 Antibody (clone 6F1) - References

Millward T.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:5022-5026(1995).
Mungall A.J.,et al.Nature 425:805-811(2003).
Bienvenut W.V.,et al.Submitted (MAR-2008) to UniProtKB.
Tamaskovic R.,et al.J. Biol. Chem. 278:6710-6718(2003).
Devroe E.,et al.J. Biol. Chem. 279:24444-24451(2004).