

Product datasheet for **AM31888PU-N**

STK38 (365-466) Mouse Monoclonal Antibody [Clone ID: 6F1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6F1
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 1 - 10 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	STK38 (AAH12085, 365 a.a. ~ 466 a.a) partial recombinant protein with GST tag
Specificity:	Recognizes STK38 at aa 365-466.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	serine/threonine kinase 38
Database Link:	Entrez Gene 106504 Mouse Entrez Gene 361813 Rat Entrez Gene 11329 Human Q15208



[View online »](#)

Background:

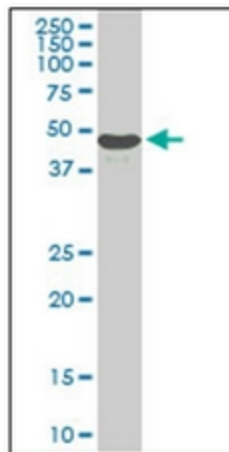
STK38 contains 1 protein kinase domain that interacts with mob1 and mob2. The homodimeric s100b binds to two molecules of stk38. It is ubiquitously expressed with highest levels observed in peripheral blood leukocytes. Stk38 activated by binding of s100b which releases autoinhibitory n-lobe interactions, enabling atp to bind and the autophosphorylation of ser-281. thr-444 then undergoes calcium- dependent phosphorylation by an upstream kinase. Interactions between phosphorylated thr-444 and the n-lobe promote additional structural changes that complete the activation of the kinase. Autoinhibition is also released by the binding of mob1/mobk1a and mob2/hcca2 to the n-terminal of stk38.

Synonyms:

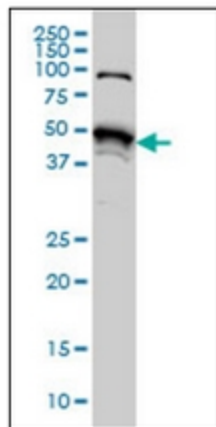
Serine/threonine-protein kinase 38, NDR1

Protein Families:

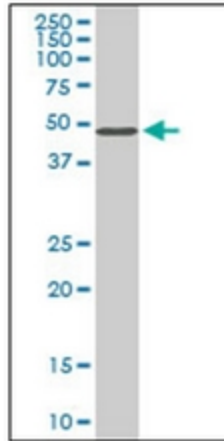
Druggable Genome, Protein Kinase

Product images:

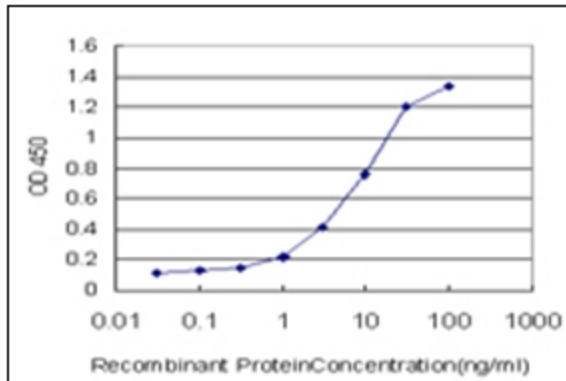
Western Blot analysis of STK38 expression in PC-12 using STK38 antibody.



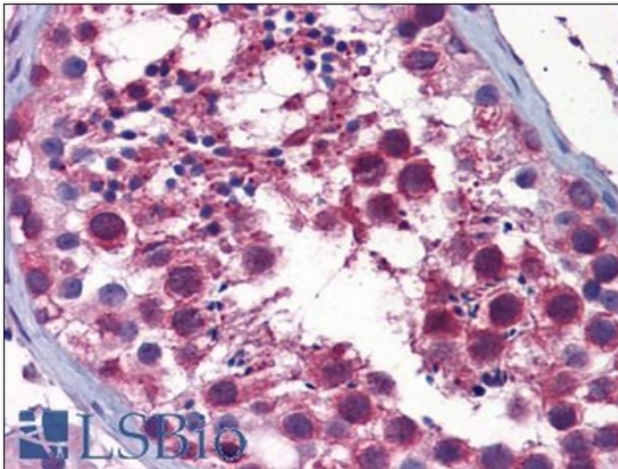
Western Blot analysis of STK38 expression in HeLa NE using STK38 antibody.



Western Blot analysis of STK38 expression in NIH/3T3 using STK38 antibody.



Detection limit for recombinant GST tagged STK38 is approximately 0.1 ng/ml as a capture antibody.



Formalin-Fixed, Paraffin-Embedded Human Testis stained with STK38 Antibody at 1 µg/ml tissue after heat-induced antigen retrieval.