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STK3, Active recombinant protein

STK, serine/threonine kinase 3
Catalog # PBV11326r

Specification

STK3, Active recombinant protein - Product info

Primary Accession	Q13188
Concentration	0.1
Calculated MW	87.0 kDa KDa

STK3, Active recombinant protein - Additional Info

Gene ID	6788
Gene Symbol	STK3

Other Names
STK, serine/threonine kinase 3, Mammalian STE20-like protein kinase 2, STE20-like kinase MST2, Serine/threonine-protein kinase Krs-1

Source	Baculovirus (Sf9 insect cells)
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	HPLC;
Recombinant	Yes

Format
Liquid

Storage
-80°C; Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).

STK3, Active recombinant protein - 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

STK3, Active recombinant protein - Images

STK3, Active recombinant protein - Background

Creasy identified a cDNA encoding STK3, which they called MST2. Sequence analysis indicated that the deduced 491-amino acid STK3 protein contains an N-terminal catalytic domain characteristic of STKs (1). Taylor also isolated cDNAs encoding STK3 (p63) and STK4 (p61) respectively. STK3 and

STK4 share 94% amino acid identity in the catalytic domain and 78% identity overall (2). The yeast 'sterile 20' (Ste20) kinase acts upstream of the mitogen-activated protein kinase (MAPK) cascade that is activated under a variety of stress conditions. O'Neill used proteomic analysis of RAF1 signaling complexes to show that RAF1 counteracts apoptosis by suppressing the activation of mammalian sterile 20-like kinase (MST2) (3). MST2 was identified as a kinase that is activated by the proapoptotic agents straurosporine and FAS ligand (2; 4). STK3 activation presumably allows cells to resist unfavorable environmental conditions.

STK3, Active recombinant protein - References

Creasy C.L.,et al.Gene 167:303-306(1995).
Taylor L.K.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:10099-10104(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.