# Recombinant Human MST2/STK3 Kinase

## Catalog No.: RP03343LQ

www.abclonal.com

## Sequence Information

**Species**
Human

**Gene ID**
6788

**Swiss Prot**
Q13188

**Tags**
N-GST

**Synonyms**
STK3; KRS1; MST2; Mammalian STE20-like protein kinase 2; Serine /threonine-protein kinase 3

## Product Information

**Source**
Baculovirus-Insect Cells

**Purification**
≥ 80 % as determined by SDS-PAGE;≥ 80 % as determined by HPLC.

**Calculated MW**
82.8 kDa

**Observed MW**
60-85 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Supplied as a 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton® X−100, 2 mM DTT, 10% glycerol. (pH 7.5). Contact us for customized product form or formulation.

**Reconstitution**
Please use running water to thaw it quickly.

## Background

Human serine/threonine-protein kinase 3 (STK3, or MST2) is a 56,301 Da monomer with three domains: a SARAH domain, composed of a long α-helix at the C-terminus that when dimerized, forms an antiparallel dimeric coiled-coil, an inhibitory domain, and a catalytic kinase domain at the N-terminus. STK3 is activated through autophosphorylation by dimerizing with itself or heterodimerizing with its homolog, MST1 (STK4). In addition to activation by straurosporine and FAS ligand, STK3 has been found to be activated through dissociation of GLRX and Thioredoxin (Trx1) from STK3 under oxidative stress. In many types of cancers, the proto-oncogene c-Raf binds to the SARAH domain of MST2 and prevents RASSF1A-mediated MST2 dimerization and subsequent downstream pro-apoptotic signaling.

## Basic Information

### Description
Recombinant Human MST2/STK3 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe491) of Human STK3 (Accession #Q13188) fused with a N-GST tag.

### Activity
The activity of MST2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

### Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

### Storage
Store at -70℃

### Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

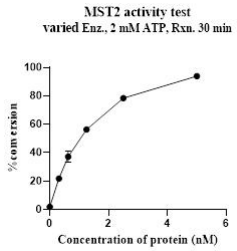
**Contact**

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

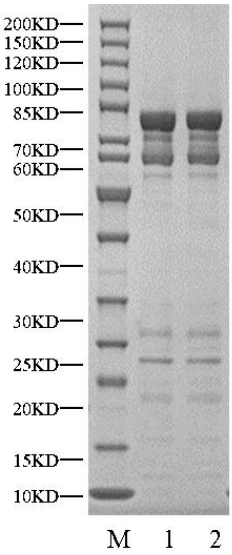


For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

## Validation Data




The activity of MST2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.




Recombinant Human MST2/STK3 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.