

Datasheet for ABIN7317098  
**STK26/MST4 Protein (GST tag)**



[Go to Product page](#)

1 Image

## Overview

Quantity:	50 µg
Target:	STK26/MST4 (MST4)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This STK26/MST4 protein is labelled with GST tag.

## Product Details

Purpose:	Recombinant Human MST4 Protein (GST Tag)(Active)
Sequence:	Met 1-Pro 416
Characteristics:	A DNA sequence encoding the human MST4 isoform 1 (NP_057626.2) (Met 1-Pro 416) was expressed with the fused GST tag at N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 15 nmol/min/mg using MBP as substrate.

## Target Details

Target:	STK26/MST4 (MST4)
Alternative Name:	MST4 ( <a href="#">MST4 Products</a> )

## Target Details

---

**Background:** Background: MST4, also known as mammalian STE20-like protein kinase 4, is a novel member of the germinal center kinase subfamily of human Ste20-like kinases and is closely related to MST3. The 416 amino acid full-length MST4 contains a C-terminal regulatory domain and an N-terminal kinase domain, both of which are required for full activation of the kinase. MST4 is highly expressed in placenta, thymus, and peripheral blood leukocytes. MST4 specifically activates ERK but not JNK or p38 MAPK in transiently transfected cells or in stable cell lines, and thus is biologically active in the activation of MEK/ERK pathway mediating cell growth and transformation. Further, MST4 kinase activity is stimulated significantly by epidermal growth factor receptor (EGFR) ligands, which are known to promote growth of certain cancer cells. Accordingly, MST4 has a potential role in signal transduction pathways involved in cancer progression. Three alternatively spliced isoforms of MST4 have been isolated, and isoform 3 lacks an exon encoding kinase domain and may function as a dominant-negative regulator of the MST4 kinase.

Synonym: MASK, MST4

---

**Molecular Weight:** 73 kDa

---

**NCBI Accession:** [NP\\_057626](#)

## Application Details

---

**Restrictions:** For Research Use only

## Handling

---

**Format:** Frozen, Liquid

---

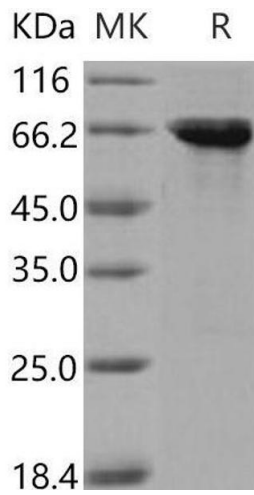
**Buffer:** Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 25 % glycerol, 0.6 mM GSH, 0.5 mM PMSF, 0.5 mM EDTA, 2 mM DTT

---

**Storage:** -20 °C

---

**Storage Comment:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



**Western Blotting**

**Image 1.**