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Datasheet for ABIN5709903

## MK13 Protein (AA 1-365, full length) (His-SUMO Tag)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	MK13
Protein Characteristics:	full length, AA 1-365
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MK13 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

#### Product Details

Sequence:	MSLIRKKGFY KQDVNKTAW E LPKTYVSPH VGSGAYGSVC SAIDKRSGEK VAIKKLSRPF QSEIFAKRAY RELLLLKHMQ HENVIGLLDV FTPASSLRNF YDFYLVMPFM QTDLQKIMGM EFSEEKIQYL VYQMLKGLKY IHSAGVVHRD LKPGNLAVNE DCELKILDFG LARHADAEMT GYVVTRWYRA PEVILSWMHY NQTVDIWSVG CIMAEMLTGK TLFKGGDYLD QLTQILKVTG VPGTEFVQKL NDKAAKSYIQ SLPQTPRKDF TQLFPRASPQ AADLLEKMLE LDVDKRLTAA QALTHPFFEP FRDPEEETEA QQPFDDSL EHKLTVD EWKQ HIYKEIVNFS PIARKDSRRR SGMKL
Purification:	SDS-PAGE
Purity:	> 90 %

#### Target Details

Target:	MK13
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## Target Details

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Alternative Name: [MK13 \(MK13 Products\)](#)

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Background: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK13 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. MAPK13 is one of the less studied p38 MAPK isoforms. Some of the targets are downstream kinases such as MAPKAPK2, which are activated through phosphorylation and further phosphorylate additional targets. Plays a role in the regulation of protein translation by phosphorylating and inactivating EEF2K. Involved in cytoskeletal remodeling through phosphorylation of MAPT and STMN1. Mediates UV irradiation induced up-regulation of the gene expression of CXCL14. Plays an important role in the regulation of epidermal keratinocyte differentiation, apoptosis and skin tumor development. Phosphorylates the transcriptional activator MYB in response to stress which leads to rapid MYB degradation via a proteasome-dependent pathway. MAPK13 also phosphorylates and down-regulates PRKD1 during regulation of insulin secretion in pancreatic beta cells

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Molecular Weight: 58.06 kDa

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UniProt: [015264](#)

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## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 0.1-2 mg/mL

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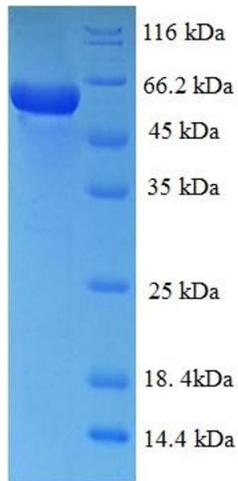
Buffer: 20 mM Tris-HCl based buffer, pH 8.0

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Storage: -80 °C, 4 °C, -20 °C

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Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



### SDS-PAGE

Image 1.