

## Product datasheet

# Recombinant Human JNK3 protein ab45153

[1 Image](#)

### Description

<b>Product name</b>	Recombinant Human JNK3 protein
<b>Purity</b>	> 75 % Densitometry.
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Tags</b>	GST tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab45153** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot
<b>Form</b>	Liquid

### Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0418% EGTA, 0.00174% PMSF, 0.385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
------------------------------	--

### General Info

<b>Function</b>	Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as c-Jun and ATF2 and thus regulates AP-1 transcriptional activity. Required for stress-induced neuronal apoptosis and the pathogenesis of glutamate excitotoxicity.
-----------------	--

<b>Tissue specificity</b>	Specific to a subset of neurons in the nervous system. Present in the hippocampus and areas, cerebellum, striatum, brain stem, and weakly in the spinal cord. Very weak expression in testis and kidney.
<b>Involvement in disease</b>	Defects in MAPK10 are a cause of epileptic encephalopathy Lennox-Gastaut type (EELG) [MIM:606369]. Epileptic encephalopathies of the Lennox-Gastaut group are childhood epileptic disorders characterized by severe psychomotor delay and seizures. Note=A chromosomal aberration involving MAPK10 has been found in a single patient. Translocation t(Y;4)(q11.2;q21) which causes MAPK10 truncation.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
<b>Domain</b>	The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.
<b>Post-translational modifications</b>	Dually phosphorylated on Thr-221 and Tyr-223, which activates the enzyme. Weakly autophosphorylated on threonine and tyrosine residues in vitro.
<b>Cellular localization</b>	Cytoplasm.

## Images



**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

#### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors