

Product datasheet

Recombinant human ULK3 protein ab101548

2 Images

Overview

Product name	Recombinant human ULK3 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Baculovirus
Amino Acid Sequence	
Accession	Q6PHR2
Species	Human
Molecular weight	51 kDa including tags
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab101548** in the following tested applications.

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

Biological activity	The Specific activity of ab101548 was determined to be 230 nmol/min/mg.
Applications	SDS-PAGE Functional Studies
Purity	> 95 % SDS-PAGE. The purity was determined to be >95% by densitometry
Form	Liquid
Additional notes	ab91090 (Cow Casein full length protein) can be utilized as a substrate for assessing Kinase activity

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. Preservative: 150mM Imidazole
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Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.0

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Serine/threonine protein kinase which enhances GLI1 and GLI2 transcriptional activity and consequently positively regulates GLI-dependent SHH signaling. May exert this function by promoting GLI1 nuclear localization. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently.

Tissue specificity

Widely expressed. Highest levels observed in fetal brain. In adult tissues, high levels in brain, liver and kidney, moderate levels in testis and adrenal gland and low levels in heart, lung, stomach, thymus, prostate and placenta. In the brain, highest expression in the hippocampus, high levels also detected in the cerebellum, olfactory bulb and optic nerve. In the central nervous system, lowest levels in the spinal cord.

Sequence similarities

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. APG1/unc-51/ULK1 subfamily.

Contains 2 MIT domains.

Contains 1 protein kinase domain.

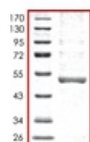
Post-translational modifications

Autophosphorylated in vitro.

Cellular localization

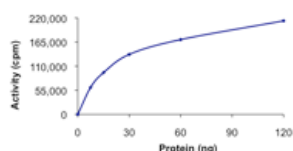
Cytoplasm.

Images



SDS-PAGE showing ab101548 at approximately 51kDa.

SDS-PAGE - ULK3 protein (ab101548)



Kinase Assay demonstrating specific activity of ab101548.

Functional Studies - ULK3 protein (ab101548)

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