

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 |
|------------------------------|--|

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.

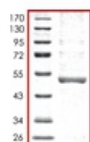
Post-translational modifications

Autophosphorylated in vitro.

Cellular localization

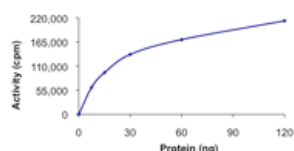
Cytoplasm.

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)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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 <http://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