

Product datasheet

Recombinant human ULK3 protein ab101548

[5 Images](#)

Description

Product name	Recombinant human ULK3 protein
Biological activity	The Specific activity of ab101548 was determined to be 230 nmol/min/mg.
Purity	> 95 % SDS-PAGE. The purity was determined to be >95% by densitometry. Affinity purified.
Expression system	Baculovirus infected insect cells
Accession	<u>Q6PHR2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted 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.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	<u>ab91090</u> (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. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00385% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride
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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.

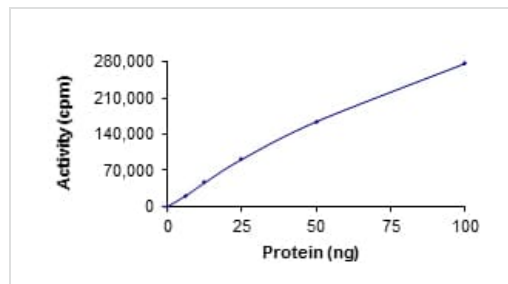
Post-translational modifications

Autophosphorylated in vitro.

Cellular localization

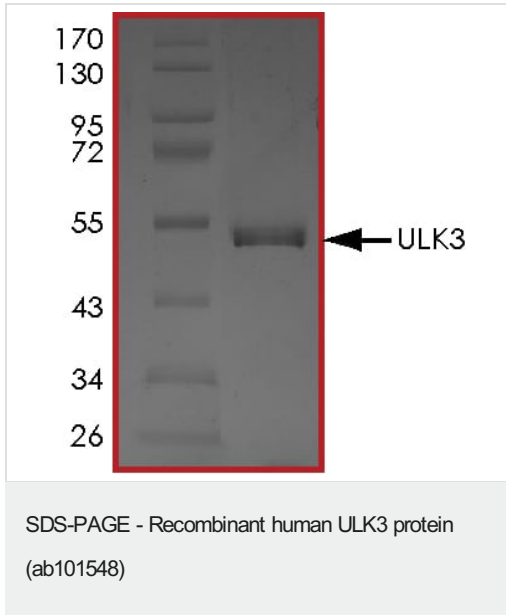
Cytoplasm.

Images

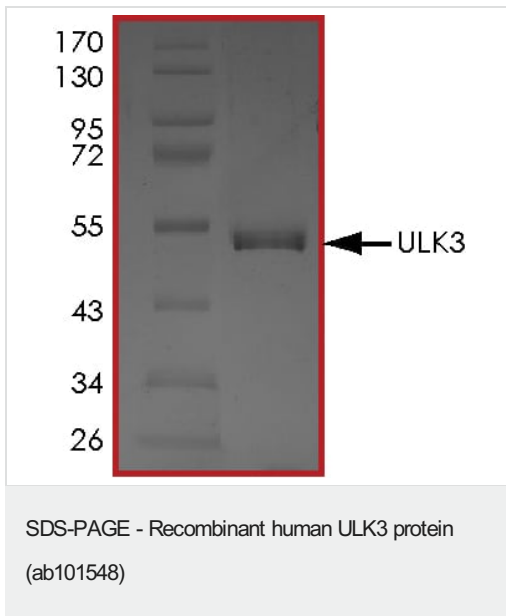


The specific activity of ULK3 (ab101548) was determined to be 210 nmol/min/mg as per activity assay protocol

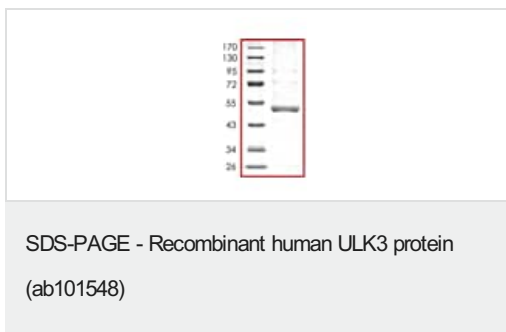
Functional Studies - Recombinant human ULK3 protein (ab101548)



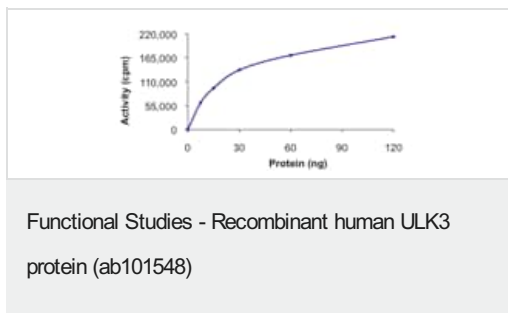
SDS PAGE analysis of ab101548



SDS PAGE analysis of ab101548



SDS-PAGE showing ab101548 at approximately 51kDa.



Kinase Assay demonstrating specific activity of ab101548.

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

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