

[Go to Product page](#)

Datasheet for ABIN7552177

PRAS40 Protein (AA 1-256) (His tag)

Overview

Quantity:	1 mg
Target:	PRAS40 (AKT1S1)
Protein Characteristics:	AA 1-256
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRAS40 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AKT1S1 Protein expressed in mammalien cells.
Sequence:	MASGRPEELW EAVVGAERF RARTGTELV LTAAPPPPPR PGPCAYAAHG RGALAEAARR CLHDIALAHR AATAARPPAP PPAPQPPSPT PSPRRPTLAR EDNEEDEP TETETSQEQL GISDNGGLFV MDEDATLQDL PPFCESDPES TDDGSLSEET PAGPPTCSVP PASALPTQQY AKSLPVSVPV WGFKEKRTEA RSSDEENGPP SSPDLDRIDIAA SMRALVLREA EDTQVFGDLP RPRLNTSDFQ KLRKY Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalien cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and

Product Details

transmembrane proteins.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: PRAS40 (AKT1S1)

Alternative Name: AKT1S1 ([AKT1S1 Products](#))

Background: Proline-rich AKT1 substrate 1 (40 kDa proline-rich AKT substrate),FUNCTION: Negative regulator of the mechanistic target of rapamycin complex 1 (mTORC1), an evolutionarily conserved central nutrient sensor that stimulates anabolic reactions and macromolecule biosynthesis to promote cellular biomass generation and growth (PubMed:17510057, PubMed:17386266, PubMed:17277771, PubMed:29236692). In absence of insulin and nutrients, AKT1S1 associates with the mTORC1 complex and directly inhibits mTORC1 activity by blocking the MTOR substrate-recruitment site (PubMed:29236692). In response to insulin and nutrients, AKT1S1 dissociates from mTORC1 (PubMed:17386266, PubMed:18372248). Its activity is dependent on its phosphorylation state and binding to 14-3-3 (PubMed:16174443, PubMed:18372248). May also play a role in nerve growth factor-mediated neuroprotection (By similarity). {ECO:0000250|UniProtKB:Q9D1F4, ECO:0000269|PubMed:16174443, ECO:0000269|PubMed:17277771, ECO:0000269|PubMed:17386266, ECO:0000269|PubMed:17510057, ECO:0000269|PubMed:18372248, ECO:0000269|PubMed:29236692}.

Molecular Weight: 27.4 kDa

UniProt: [Q96B36](#)

Target Details

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Cell Size](#), [Autophagy](#), [BCR Signaling](#), [Warburg Effect](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months