

Recombinant Human C19orf2 protein ab81853

Description

Product name	Recombinant Human C19orf2 protein
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Specifications

Our **Abpromise guarantee** covers the use of **ab81853** 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
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.9 Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine)
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General Info

Function	Involved in gene transcription regulation. Acts as a transcriptional repressor in concert with the corepressor UXT to regulate androgen receptor (AR) transcription. May act as a tumor suppressor to repress AR-mediated gene transcription and to inhibit anchorage-independent growth in prostate cancer cells. Required for cell survival in ovarian cancer cells. Together with UXT, associates with chromatin to the NKX3-1 promoter region. Antagonizes transcriptional modulation via hepatitis B virus X protein. Plays a central role in maintaining S6K1 signaling and BAD phosphorylation under normal growth
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conditions thereby protecting cells from potential deleterious effects of sustained S6K1 signaling. The URI1-PPP1CC complex acts as a central component of a negative feedback mechanism that counteracts excessive S6K1 survival signaling to BAD in response to growth factors. Mediates inhibition of PPP1CC phosphatase activity at mitochondria. Coordinates the regulation of nutrient-sensitive gene expression availability in a mTOR-dependent manner. Seems to be a scaffolding protein able to assemble a prefoldin-like complex that contains PFDs and proteins with roles in transcription and ubiquitination.

Tissue specificity

Ubiquitous. Expressed in ovarian cancers (at protein level). Expressed strongly in skeletal muscle. Expressed weakly in brain, heart, pancreas and in prostate epithelial cells.

Sequence similarities

Belongs to the RNA polymerase II subunit 5-mediating protein family.

Post-translational modifications

Phosphorylated. Phosphorylation occurs essentially on serine residues. Phosphorylation occurs in response to androgen treatment in prostate cancer cells in a mTOR-dependent manner. Phosphorylated; hyperphosphorylated in mitochondria in a mTORC-dependent signaling pathway. Phosphorylated at Ser-372 by RPS6KB1 in a growth factor- and rapamycin-dependent manner. S6K1-mediated mitochondrial phosphorylation at Ser-372 disrupts the URI1-PPP1CC complex in the mitochondrion, releases PPP1CC phosphatase inhibition activity and hence engages a negative feedback diminishing RPS6KB1 kinase activity and preventing sustained S6K1-dependent signaling.

Cellular localization

Nucleus. Cytoplasm. Mitochondrion. Cell projection > dendrite. Colocalizes with PFDN2, PFDN4, PPP1CC, RPS6KB1 and STAP1 at mitochondrion.

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