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Product datasheet

Recombinant Human GLE1 protein ab158531

1 Image

Overview

Product name	Recombinant Human GLE1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	MPSEGRCWETLKALRSSDKGRLCYYRDWLLRREDVL EECMSLPKLSSYSG WVVEHVLPHMQENQPLSETSPSSTSASALDQPSFVP KSPDASSAFSPASP ATPNGTKGKDESQHTESMVLQSSRGIKVEDCVRMYEL VHRMKGTEGLRLW QEEQERKVQALSEMASEQLKRFDEWKELKQHKEFQ DLREVMEKSSREALG HQEKLKAEHRHRAKILNLKLREAEQQRVKQAEQERLR KEEGQIRLRALYA LQEEMLQLSQQLDASEQHKALLKVDLAAFQTRGNQL CSLISGIIRASSES SYPTAESQAEAERALREMRDLLMNLGQEITRACEDKR RQDEEEAQVKLQE AQMQQGPEAHKEPPAPSQGPGGKQNEDLQVKVQDIT MQWYQQLQDASMQC VLTFEGLTNSKDSQAKKIKMDLQKAATIPVSQISTIAGS KLKEIFDKIHS LLSGKPVQSGGRSVSVTLNPQGLDFVQYKLAEKFVKQ GEEEVASHHEAAF PIAVVASGIWELHPRVGDLILAHLHKKCPYSVPFYPTFK EGMALEDYQRM LGYQVKDSKVEQQDNFLKRMSGMIRLYAAIIQLRWPYG NQQEIHPHGLNH GWRWLAQILNMEPLSDVTATLLFDFLEVCGNALMKQY QVQFWKMLILIKE

DYFPRIEAITSSGQMGSFIRLKQFLEKCLQHKDIPVPKG
FLTSSFWRS

Amino acids	1 to 698
Tags	proprietary tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab158531** in the following tested applications.

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

Applications	Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

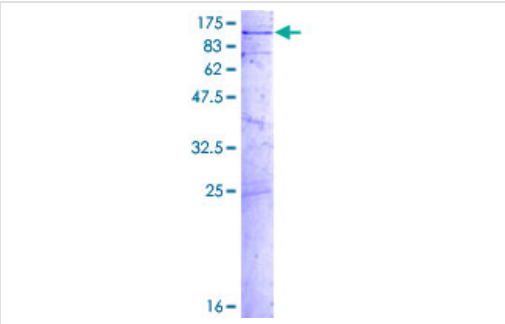
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Required for the export of mRNAs containing poly(A) tails from the nucleus into the cytoplasm. May be involved in the terminal step of the mRNA transport through the nuclear pore complex (NPC).
Involvement in disease	Defects in GLE1 are the cause of lethal congenital contracture syndrome type 1 (LCCS1) [MIM:253310]; also known as multiple contracture syndrome type Finnish. LCCS is an autosomal recessive disorder characterized by early fetal hydrops and akinesia, micrognatia, pulmonary hypoplasia, pterygia, multiple joint contractures, specific neuropathology with degeneration of anterior horn neurons and extreme skeletal muscle atrophy. LCCS1 leads to prenatal death. Defects in GLE1 are the cause of lethal arthrogryposis with anterior horn cell disease (LAAHD) [MIM:611890]. LAAHD is characterized by fetal akinesia, arthrogryposis and motor neuron loss. LAADH fetus often survive delivery, but die early as a result of respiratory failure. Neuropathological findings resemble those of LCCS1, but are less severe.
Sequence similarities	Belongs to the GLE1 family.
Cellular localization	Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm. Shuttling is essential for its mRNA export function and Cytoplasm. Nucleus > nuclear pore complex. Shuttles between the nucleus and the cytoplasm. In the nucleus, isoform 1 localizes to the nuclear pore complex and nuclear envelope. Shuttling is essential for its mRNA export function.

Images



SDS-PAGE - Recombinant Human GLE1 protein (ab158531)

ab158531 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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