abcam

Product datasheet

Anti-GLE1 antibody ab81648

1 Image

Overview

Product name	Anti-GLE1 antibody
Description	Rabbit polyclonal to GLE1
Host species	Rabbit
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Horse, Chicken, Cow, Cat, Dog, Pig, Saccharomyces cerevisiae
Immunogen	Synthetic peptide corresponding to a region within N terminal ammino acids 217-266 (LKLREAEQQRVKQAEQERLRKEEGQIRLRALYALQEEMLQLSQQLDASE Q) of human GLE1 (NP_001490).
Positive control	Placenta lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab81648 in the following tested applications.

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

Application	Abreviews	Notes

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WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 80 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.
ELISA		Use at an assay dependent concentration. ELISA titre using peptide based assay: 1/1562500.

Target

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.

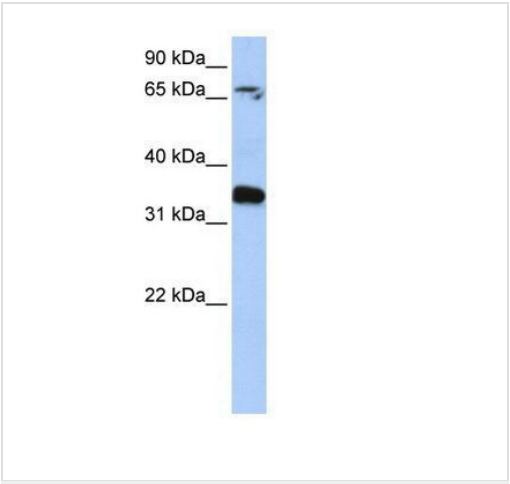
Sequence similarities

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



Western blot - Anti-GLE1 antibody (ab81648)

Anti-GLE1 antibody (ab81648) at 1 µg/ml + placenta lysate at 10 ug protein.

Secondary

HRP conjugated anti-Rabbit IgG diluted 1/50,000 - 1/100,000.

Predicted band size: 80 kDa

Observed band size: 70 kDa

Additional bands at: 35 kDa. We are unsure as to the identity of these extra bands.

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