

For Research Use Only

DELE1 Polyclonal antibody

Catalog Number: 21904-1-AP

1 Publications



Basic Information

Catalog Number:

21904-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 360 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14615

GenBank Accession Number:

BC007855

GeneID (NCBI):

9812

UNIPROT ID:

Q14154

Full Name:

KIAA0141

Calculated MW:

515 aa, 56 kDa

Observed MW:

56 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

mouse

Positive Controls:

WB : mouse lung tissue,

Background Information

DELE1, also known as KIAA0141, is a 515 amino acid protein, which localizes in Mitochondrion and is detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon. DELE1 is essential for the induction of death receptor-mediated apoptosis through the regulation of caspase activation. Mitochondrial malfunction needs to be relayed to the cytosol, where an integrated stress response is triggered by the phosphorylation of eukaryotic translation initiation factor 2 α (eIF2 α) in mammalian cells. eIF2 α phosphorylation is mediated by the four eIF2 α kinases GCN2, HRI, PERK and PKR, which are activated by diverse types of cellular stress. OMA1, a mitochondrial stress-activated protease; and DELE1, a little-characterized protein that we found was associated with the inner mitochondrial membrane. Mitochondrial stress stimulates OMA1-dependent cleavage of DELE1 and leads to the accumulation of DELE1 in the cytosol, where it interacts with HRI and activates the eIF2 α kinase activity of HRI. In addition, DELE1 is required for ATF4 translation downstream of eIF2 α phosphorylation.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiahui Tang	36290724	Antioxidants (Basel)	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

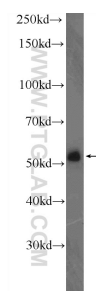
For technical support and original validation data for this product please contact:

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Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 21904-1-AP (KIAA0141 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.