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KIAA0141 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS15632

Specification

KIAA0141 Antibody (N-Terminus) - Product Information

Application	**WB, IHC-P, IF**
Primary Accession	Q14154
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200**

KIAA0141 Antibody (N-Terminus) - Additional Information

Gene ID 9812

Other Names
Death ligand signal enhancer, KIAA0141, DELE

Target/Specificity
Human KIAA0141.

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions
KIAA0141 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

KIAA0141 Antibody (N-Terminus) - Protein Information

Name DELE1 {ECO:0000303|PubMed:32132706, ECO:0000312|HGNC:HGNC:28969}

Function
Protein kinase activator that acts as a key activator of the integrated stress response (ISR) following various stresses, such as iron deficiency, mitochondrial stress or mitochondrial DNA breaks (PubMed:32132706, PubMed:32132707, PubMed:35388015, PubMed:37327776, PubMed:37550454, PubMed:37832546, PubMed:38340717). Detects impaired protein import and processing in

mitochondria, activating the ISR (PubMed:35388015). May also required for the induction of death receptor-mediated apoptosis through the regulation of caspase activation (PubMed:20563667).

Cellular Location
[DAP3-binding cell death enhancer 1]: Mitochondrion. Mitochondrion outer membrane. Mitochondrion inner membrane. Note=Imported in the mitochondrial matrix in absence of stress, leading to its degradation by LONP1 (PubMed:37327776). Localizes at the mitochondrial surface in response to iron deficiency: iron deficiency impairs mitochondrial import, promoting localization at the mitochondrial surface and stabilization (PubMed:37327776). Associates with the mitochondrion inner membrane in response to mitochondrial stress, leading to its proteolytic processing by OMA1, and generation of the AP3-binding cell death enhancer 1 short form (DELE1(S) or S-DELE1) (PubMed:32132707)

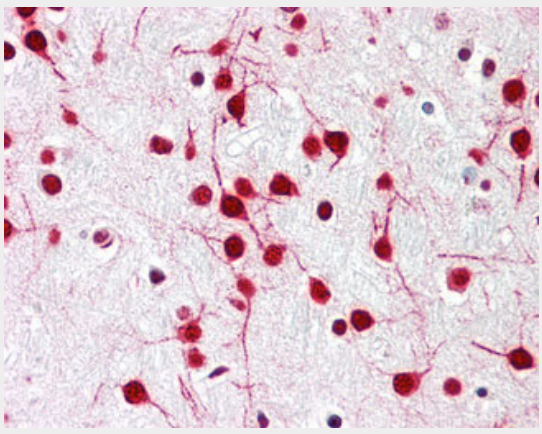
Tissue Location
Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon

KIAA0141 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KIAA0141 Antibody (N-Terminus) - Images



Anti-KIAA0141 antibody IHC staining of human brain, cortex.

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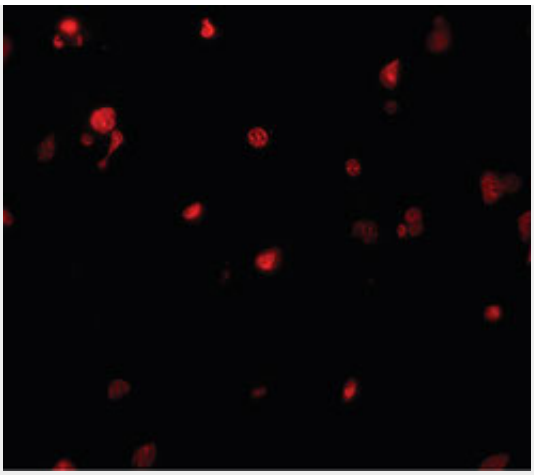
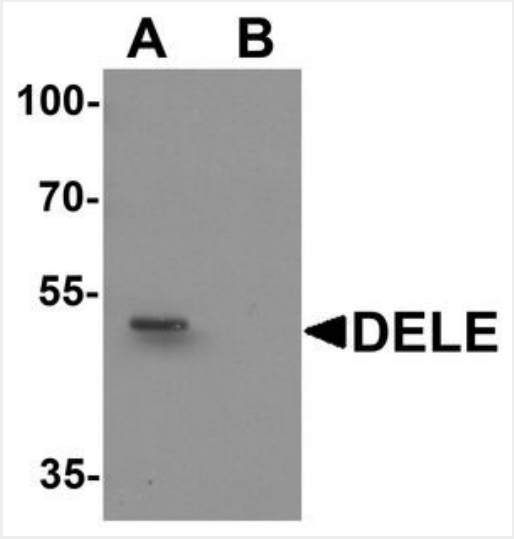


Immunofluorescence of DELE in human brain tissue with DELE antibody at 20 ug/ml.



Western blot analysis of DELE in rat brain tissue lysate with DELE antibody at 1 ug/ml in (A)...

KIAA0141 Antibody (N-Terminus) - Background

Essential for the induction of death receptor-mediated apoptosis through the regulation of caspase activation.

KIAA0141 Antibody (N-Terminus) - References

Nagase T.,et al.DNA Res. 2:167-174(1995).
Harada T.,et al.Apoptosis 15:1247-1255(2010).