10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KIAA0141 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15861

Product Information

Application	WB
Primary Accession	Q14154
Other Accession	NM_014773, NP_055588
Reactivity	Human, Horse, Bovine
Predicted	Human, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55920

Additional Information

Gene ID	9812
Alias Symbol	DELE
Other Names	Death ligand signal enhancer, KIAA0141, DELE
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-KIAA0141 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	KIAA0141 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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

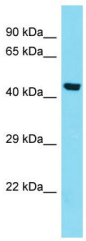
Background

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

References

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

Images



Host: Rabbit
Target Name: KIAA0141
Sample Tissue: HepG2 Whole cell lysate
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Antibody Dilution: 1.0µg/mlKIAA0141 is supported by BioGPS gene expression data to be expressed in HepG2

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.