

DELE Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56482

Product Information

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| Application | WB, IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | Q14154 |
| Reactivity | Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 55920 |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human DELE |
| Epitope Specificity | 401-500/515 |
| Isotype | IgG |
| Purity | affinity purified by Protein A |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| SUBCELLULAR LOCATION | Mitochondrial |
| SIMILARITY | Contains 7 TPR repeats. |
| SUBUNIT | Interacts with DAP3. |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| Background Descriptions | KIAA0141 is detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon. It contains seven TPR repeats. Its function is unknown. |

Additional Information

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| Gene ID | 9812 |
| Other Names | DAP3-binding cell death enhancer 1, DAP3-binding cell death enhancer 1, long form, DELE1(L), Death ligand signal enhancer, DAP3-binding cell death enhancer 1 short form, DELE1(S), S-DELE1, DELE1 (HGNC:28969) |
| Target/Specificity | Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon. |
| Dilution | WB=1:500-2000, IHC-P=1:100-500, IHC-F=1:100-500, ICC=1:100-500, IF=1:100-500, ELISA=1:5000-10000 |
| Format | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

Protein Information

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| 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 |

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