

## Rabbit DAPK1 Polyclonal Antibody | anti-DAPK1 antibody

Anti-DAPK1 Antibody Picoband

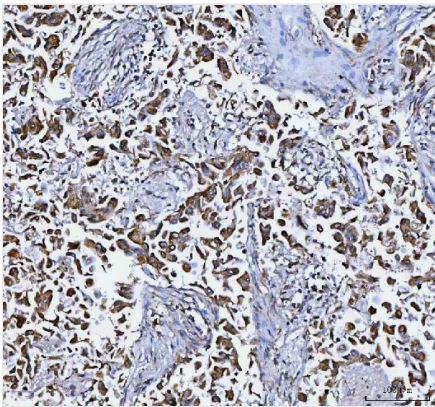
|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA127041</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

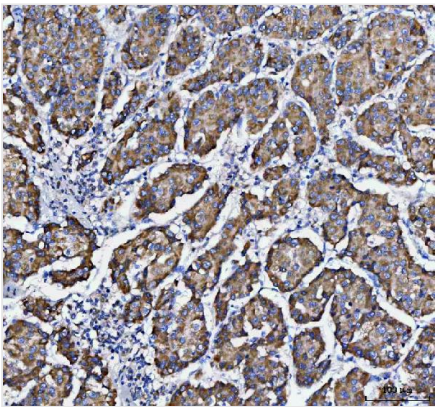
DAPK1; Polyclonal Antibody; Anti-DAPK1 Antibody Picoband; interleukin 11; Interleukin-11; IL-11; IL11; anti-DAPK1 antibody

### PRODUCT SPECIFICATIONS

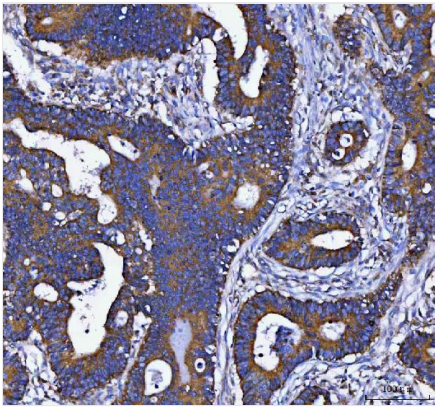
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                     | Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 areExpressed in fetal heart. Isoform 7 is alsoExpressed in failing adult heart.                                                                                                                                                                                    |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                     | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-DAPK1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen                                       | E coli-derived human DAPK1 recombinant protein (Position: H545-Q1159).                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Subcellular Localization                        | Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cross Reactivity                                | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protein Function                                | Cytokine that stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. Also promotes the proliferation of hepatocytes in response to liver damage. Binding to its receptor formed by IL6ST and either IL11RA1 or IL11RA2 activates a signaling cascade that promotes cell proliferation. Signaling leads to the activation of intracellular protein kinases and the phosphorylation of STAT3. |
| Preparation and Storage                         | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                             |



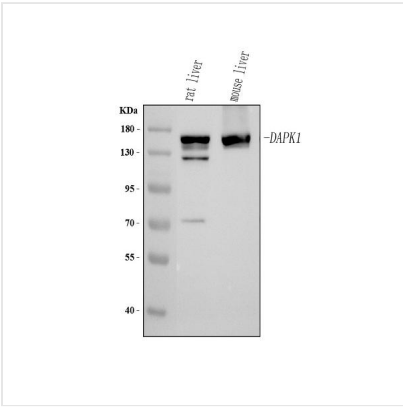
**IHC (Immunohistochemistry)**  
Figure 4. IHC analysis of DAPK1 using anti-DAPK1 antibody (AAA127041).DAPK1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DAPK1 Antibody (AAA127041) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



**IHC (Immunohistochemistry)**  
Figure 3. IHC analysis of DAPK1 using anti-DAPK1 antibody (AAA127041).DAPK1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DAPK1 Antibody (AAA127041) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



**IHC (Immunohistochemistry)**  
Figure 2. IHC analysis of DAPK1 using anti-DAPK1 antibody (AAA127041).DAPK1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DAPK1 Antibody (AAA127041) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



**WB (Western Blot)**  
Figure 1. Western blot analysis of DAPK1 using anti-DAPK1 antibody (AAA127041).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat liver tissue lysates,Lane 2: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DAPK1 antigen affinity purified polyclonal antibody (#AAA127041) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for DAPK1 at approximately 160 kDa. The expected band size for DAPK1 is at 160 kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-DAPK1 antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Product Categories/Family for anti-DAPK1 antibody   | Primary Antibodies; Adaptive Immunity; Angiogenesis; B Cells; Cancer; Cardiovascular; Cytokines; Hematopoietic Progenitors; Immunology; Innate Immunity; Interleukins; Myeloid; Non-CD; Secreted Molecules; Stem Cells; Tumor Immunology                                          |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>1. Deiss, L. P., Feinstein, E., Berissi, H., Cohen, O., Kimchi, A. Identification of a novel serine/threonine kinase and a novel 15-kD protein as potential mediators of the gamma interferon-induced cell death. <i>Genes Dev.</i> 9: 15-30, 1995.</p> <p>2. Feinstein, E., Druck, T., Kastury, K., Berissi, H., Goodart, S. A., Overhauser, J., Kimchi, A., Huebner, K. Assignment of DAP1 and DAPK: genes that positively mediate programmed cell death triggered by IFN-gamma--to chromosome regions 5p12.2 and 9q34.1, respectively. <i>Genomics</i> 29: 305-307, 1995.</p> <p>3. Guenebeaud, C., Goldschneider, D., Castets, M., Guix, C., Chazot, G., Delloye-Bourgeois, C., Eisenberg-Lerner, A., Shohat, G., Zhang, M., Laudet, V., Kimchi, A., Bernet, A., Mehlen, P. The dependence receptor UNC5H2/B triggers apoptosis via PP2A-mediated dephosphorylation of DAP kinase. <i>Molec. Cell</i> 40: 863-876, 2010.</p> |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 89363047                                               |
| NCBI GeneID                      | 1612                                                   |
| NCBI Accession #                 | NP_004929.2                                            |
| NCBI GenBank Nucleotide #        | NM_004938.2                                            |
| UniProt Accession #              | P53355; Q14CQ7; Q1W5W0; Q68CP8; Q6ZRZ3; Q9BTL8; B7ZLD2 |
| Molecular Weight                 | 1430                                                   |
| NCBI Official Full Name          | death-associated protein kinase 1                      |
| NCBI Official Synonym Full Names | death-associated protein kinase 1                      |
| NCBI Official Symbol             | DAPK1                                                  |
| NCBI Official Synonym Symbols    | DAPK                                                   |
| NCBI Protein Information         | death-associated protein kinase 1; DAP kinase 1        |
| UniProt Protein Name             | Death-associated protein kinase 1                      |
| UniProt Gene Name                | DAPK1                                                  |
| UniProt Synonym Gene Names       | DAPK; DAP kinase 1                                     |
| UniProt Entry Name               | DAPK1_HUMAN                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.