

## Rabbit Kallikrein 2 Polyclonal Antibody | anti-KLK2 antibody

Anti-Kallikrein 2 Picoband antibody

|                               |                       |                                                                     |                                                                  |
|-------------------------------|-----------------------|---------------------------------------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA124715</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> No cross reactivity with other proteins. | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, ELISA</b> |
|-------------------------------|-----------------------|---------------------------------------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

Kallikrein 2; Polyclonal Antibody; Anti-Kallikrein 2 Picoband antibody; Kallikrein-2; Glandular kallikrein-1; hGK-1; Tissue kallikrein-2; KLK2; anti-KLK2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                     |
| Reactivity                                     | Human<br>No cross reactivity with other proteins.                                                                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                                                                                                                 |
| Form/Format                                    | Lyophilized                                                                                                                                                                                                |
| Sequence Length                                | 159                                                                                                                                                                                                        |
| Applicable Applications for anti-KLK2 antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                                                       |
| Immunogen                                      | E Coli-derived human Kallikrein 2 recombinant protein (Position: I25-P261).                                                                                                                                |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Contents                                       | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                  |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



#### IHC (Immunohistochemistry)

Figure 2. IHC analysis of Kallikrein 2 using anti-Kallikrein 2 antibody (AAA124715). Kallikrein 2 was detected in paraffin-embedded section of human prostatic cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Kallikrein 2 Antibody (AAA124715) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



#### WB (Western Blot)

Figure 1. Western blot analysis of Kallikrein 2 using anti-Kallikrein 2 antibody (AAA124715). 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 50ug of sample under reducing conditions. Lane 1: human MCF-7 cell lysate, Lane 2: human COLO-320 cell lysate, Lane 3: human SK-OV-3 cell lysate, Lane 4: human HepG2 cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Kallikrein 2 antigen affinity purified polyclonal antibody 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 1:10000 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 Kallikrein 2 at approximately 21KD. The expected band size for Kallikrein 2 is at 28KD.

ADDITIONAL INFORMATION

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| Related Product Information for anti-KLK2 antibody | <p>Description: KLK2(KALLIKREIN 2), also called GLANDULAR or PROSTATIC, is a protein that in humans is encoded by the KLK2 gene, and is particularly associated with prostatic tissue. The KLK2 is a member of glandular kallikrein gene family that comprises 25 to 30 highly homologous genes that encode specific proteases involved in the processing of biologically active peptides. The KLK2 gene is mapped to 19q13.33.And the KLK2 gene contains 5 exons. An alternative KLK2 transcript, which they call KLK2-linked molecule (KLM), that arises from the use of an alternate donor site within intron 1.KLM shares only the N-terminal 15-amino acid signal peptide with the original KLK2 protein; the mature proteins display no similarity.</p> <p>Protein Function: Glandular kallikreins cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 50363237                                       |
| NCBI GeneID                      | 3817                                           |
| NCBI Accession #                 | NP_001002231.1                                 |
| NCBI GenBank Nucleotide #        | NM_001002231.2                                 |
| UniProt Accession #              | P20151; Q15946; Q9UJZ9; B4DU93; B4DUB0; F5H8L3 |
| Molecular Weight                 | 17,301 Da                                      |
| NCBI Official Full Name          | kallikrein-2 isoform 2 preproprotein           |
| NCBI Official Synonym Full Names | kallikrein related peptidase 2                 |
| NCBI Official Symbol             | KLK2                                           |
| NCBI Official Synonym Symbols    | hK2; hGK-1; KLK2A2                             |
| NCBI Protein Information         | kallikrein-2                                   |
| UniProt Protein Name             | Kallikrein-2                                   |
| UniProt Gene Name                | KLK2                                           |
| UniProt Synonym Gene Names       | hGK-1                                          |

**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.