

Datasheet for ABIN5693006
anti-Kallikrein 2 antibody (AA 25-261)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	Kallikrein 2 (KLK2)
Binding Specificity:	AA 25-261
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human Kallikrein 2 recombinant protein (Position: I25-P261).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Kallikrein 2 detection. Tested with WB, IHC-P, Direct ELISA in Human.

Target Details

Target:	Kallikrein 2 (KLK2)
Alternative Name:	KLK2 (KLK2 Products)
Background:	Synonyms: Kallikrein-2, Glandular kallikrein-1, hGK-1, Tissue kallikrein-2, KLK2, Background: 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

Target Details

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.

UniProt: [P20151](#)

Pathways: [Complement System](#)

Application Details

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

Application Details: Western blot, 0.1-0.5 µg/mL

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL

Direct ELISA, 0.1-0.5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

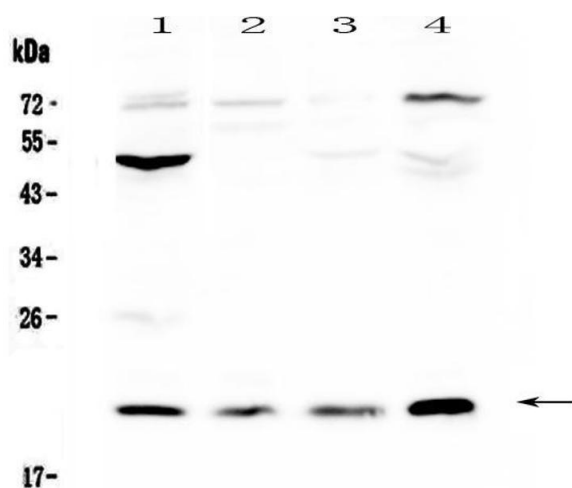
Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

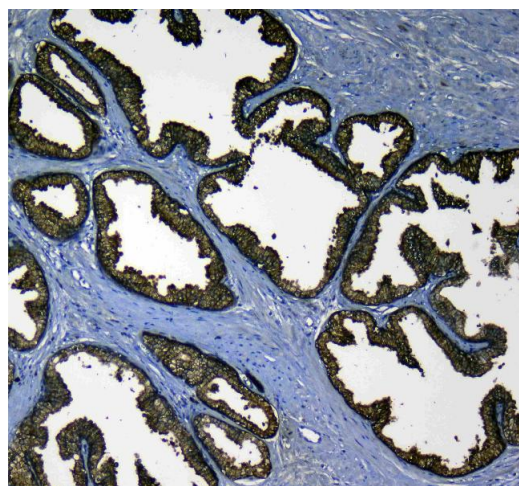
Storage: 4 °C, -20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot analysis of Kallikrein 2 using anti-Kallikrein 2 antibody. 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 (Catalog #) at 0.5 µg/mL overnight at 4°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 (Catalog # EK1002) 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.



Immunohistochemistry

Image 2. IHC analysis of Kallikrein 2 using anti-Kallikrein 2 antibody. 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 1µg/ml rabbit anti-Kallikrein 2 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the

chromogen.