

PRODUCT INFORMATION

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| Target | KLK2 |
| Synonyms | KLK2A2, hGK-1, hK2 |
| Description | Recombinant human KLK2 Protein with C-terminal human Fc tag |
| Delivery | In Stock |
| Uniprot ID | P20151 |
| Expression Host | HEK293 |
| Tag | C-Human Fc tag |
| Molecular Characterization | KLK2(Ile25-Pro261)+hFc(Glu99-Ala330) |
| Molecular Weight | The protein has a predicted molecular mass of 52.3 kDa after removal of the signal peptide. |
| Purity | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| Formulation & Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| Storage&Shipping | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| Background | This gene encodes a member of the granular kallikrein protein family. Kallikreins are a subgroup of serine proteases that are clustered on chromosome 19. Members of this family are involved in a diverse array of biological functions. The protein encoded by this gene is a highly active trypsin-like serine protease that selectively cleaves at arginine residues. This protein is primarily expressed in prostatic tissue and is responsible for cleaving pro-prostate-specific antigen into its enzymatically active form. This gene is highly expressed in prostate tumor cells and may be a prognostic maker for prostate cancer risk. Alternate splicing results in both coding and non-coding transcript variants. [provided by RefSeq, Jan 2012] |
| Usage | Research use only |
| Conjugate | Unconjugated |



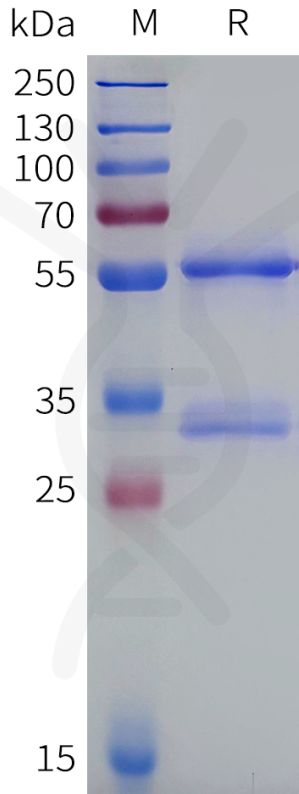


Figure 1. Human KLK2 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human KLK2, hFc Tagged Protein ELISA

0.2 μg of Human KLK2, hFc tagged protein per well

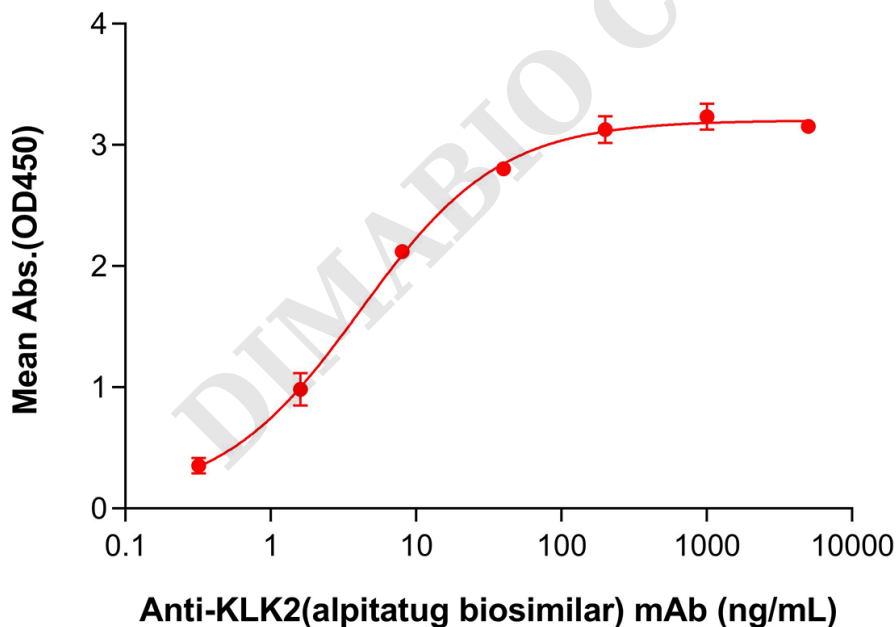


Figure 2. ELISA plate pre-coated by 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) Human KLK2 Protein, hFc Tag (PME101966) can bind Anti-KLK2(alpitatug biosimilar) mAb (BME100746) in a linear range of 1.6–8.0 ng/mL. In order to specifically detect BME100746, HRP Conjugated- Goat anti Human Fab was used as detection antibody.

