10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Kallikrein 4 (KLK4) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6323a

Specification

Kallikrein 4 (KLK4) Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9Y5K2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27032**
Antigen Region	**85-115**

Kallikrein 4 (KLK4) Antibody (Center) - Additional Information

Gene ID 9622

Other Names
Kallikrein-4, 3421-, Enamel matrix serine proteinase 1, Kallikrein-like protein 1, KLK-L1, Prostase, Serine protease 17, KLK4, EMSP1, PRSS17, PSTS

Target/Specificity
This Kallikrein 4 (KLK4) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 85-115 amino acids from the Central region of human Kallikrein 4 (KLK4).

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Kallikrein 4 (KLK4) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Kallikrein 4 (KLK4) Antibody (Center) - Protein Information

Name KLK4

Synonyms EMSP1, PRSS17, PSTS

Function Has a major role in enamel formation (PubMed:15235027). Required during the maturation stage of tooth development for clearance of enamel proteins and normal structural patterning of the crystalline matrix (By similarity).

Cellular Location
Secreted.

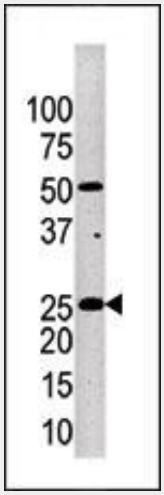
Tissue Location
Expressed in prostate.

Kallikrein 4 (KLK4) Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

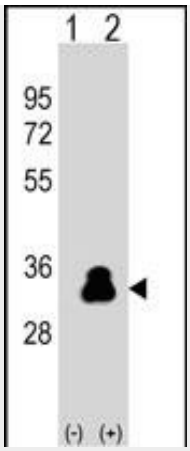
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Kallikrein 4 (KLK4) Antibody (Center) - Images



Western blot analysis of anti-KLK4 Pab (Cat. #AP6323a) in mouse brain tissue lysate.KLK4(arrow) was detected using the purified Pab.

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Western blot analysis of KLK4 (arrow) using rabbit polyclonal KLK4 Antibody (S100) (Cat. #AP6323a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the KLK4 gene.

Kallikrein 4 (KLK4) Antibody (Center) - Background

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. In some tissues KLK4 expression is hormonally regulated. The expression pattern of a similar mouse protein in murine developing teeth supports a role for the protein in the degradation of enamel proteins.

Kallikrein 4 (KLK4) Antibody (Center) - References

Hart, P.S., et al., J. Med. Genet. 41(7):545-549 (2004).
Xi, Z., et al., Cancer Res. 64(7):2365-2370 (2004).
Hural, J.A., et al., J. Immunol. 169(1):557-565 (2002).
Takayama, T.K., et al., Biochemistry 40(50):15341-15348 (2001).
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