

**Kallikrein 7 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6326a**

**Specification**

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**Kallikrein 7 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P49862</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>27525</b>
Antigen Region	<b>67-97</b>

**Kallikrein 7 Antibody (Center) - Additional Information**

**Gene ID** 5650

**Other Names**

Kallikrein-7, hK7, Serine protease 6, Stratum corneum chymotryptic enzyme, hSCCE, KLK7, PRSS6, SCCE

**Target/Specificity**

This Kallikrein 7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-97 amino acids from the Central region of human Kallikrein 7.

**Dilution**

WB~~1:2000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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 7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Kallikrein 7 Antibody (Center) - Protein Information**

**Name** KLK7

**Synonyms** PRSS6, SCCE

**Function** May catalyze the degradation of intercellular cohesive structures in the cornified layer of the skin in the continuous shedding of cells from the skin surface. Specific for amino acid residues with aromatic side chains in the P1 position. Cleaves insulin A chain at '14-Tyr-|-Gln-15' and insulin B chain at '6-Leu-|-Cys-7', '16-Tyr-|-Leu-17', '25-Phe-|-Tyr-26' and '26-Tyr-|-Thr-27'. Could play a role in the activation of precursors to inflammatory cytokines.

#### **Cellular Location**

Secreted. Note=In ovarian carcinoma, secreted and also observed at the apical membrane and in cytoplasm at the invasive front

#### **Tissue Location**

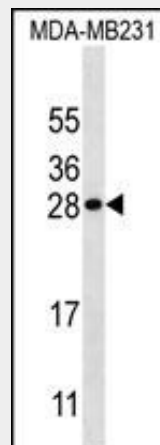
Abundantly expressed in the skin and is expressed by keratinocytes in the epidermis. Also expressed in the brain, mammary gland, cerebellum, spinal cord and kidney. Lower levels in salivary glands, uterus, thymus, thyroid, placenta, trachea and testis. Up- regulated in ovarian carcinoma, especially late-stage serous carcinoma, compared with normal ovaries and benign adenomas (at protein level)

### **Kallikrein 7 Antibody (Center) - Protocols**

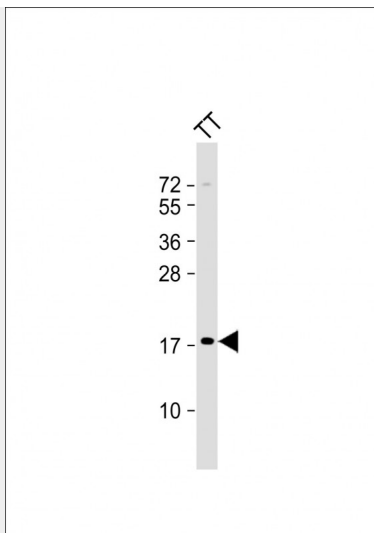
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

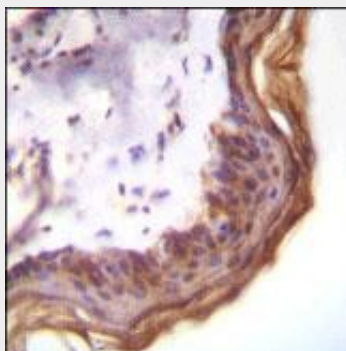
### **Kallikrein 7 Antibody (Center) - Images**



KLK7 Antibody (S82) (Cat. #AP6326a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the KLK7 antibody detected the KLK7 protein (arrow).



Anti-KLK7-S82 at 1:2000 dilution + TT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Kallikrein 7(KLK7) Antibody (Center) (Cat. #AP6326a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Kallikrein 7(KLK7) Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

### **Kallikrein 7 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. The KLK7 enzyme is thought to be involved in the proteolysis of intercellular cohesive structures preceding desquamation, which is the shedding of the outermost layer of the epidermis.

### **Kallikrein 7 Antibody (Center) - References**

- Planque, C., et al., *Biochem. Biophys. Res. Commun.* 329(4):1260-1266 (2005).
- Ishida-Yamamoto, A., et al., *J. Invest. Dermatol.* 124(2):360-366 (2005).
- Vasilopoulos, Y., et al., *J. Invest. Dermatol.* 123(1):62-66 (2004).
- Santin, A.D., et al., *Gynecol. Oncol.* 94(2):283-288 (2004).
- Caubet, C., et al., *J. Invest. Dermatol.* 122(5):1235-1244 (2004).