

# **Human Kallikrein 11 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1595

DESCRIPTION				
Species Reactivity	Human Detects human Kallikrein 11 in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant human rh) Kallikrein 1, rhKallikrein 3, rhKallikrein 5, and rhKallikrein 9 is observed.			
Specificity				
Source	Polyclonal Goat IgG			
Purification	Antigen Affinity-purified			
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 11 lle54-Asn282 Accession # Q9UBX7			
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.			

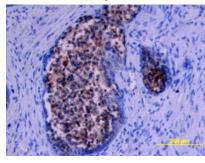
#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Human Kallikrein 11 (Catalog # 1595-SE)	
Immunohistochemistry 5-15 µg/mL		See Below	
<b>Immunoprecipitation</b> 25 μg/mL		Conditioned cell culture medium spiked with Recombinant Human Kallikrein 11 (Catalog : 1595-SE), see our available Western blot detection antibodies	

### DATA

## Immunohistochemistry



Kallikrein 11 in Human Prostate. Kallikrein 11 was detected in immersion fixed paraffin-embedded sections of human prostate using Goat Anti-Human Kallikrein 11 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1595) at 10  $\mu$ g/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PKEF	'AKA I	ION AN	DSIO	RAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Rev. 2/6/2018 Page 1 of 2





# **Human Kallikrein 11 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1595

#### BACKGROUND

As a member of human tissue kallikrein family, Kallikrein 11, also known as hippostasin, trypsin-like serine protease and PRSS20, is encoded by the KLK11 gene (1). Two alternatively spliced forms exist, resulting in 250 (isoform 1) and 282 (isoform 2) amino acid sequences, respectively (2-5). Isoform 1 consists of a signal peptide (residues 1-18), a short pro peptide (residues 19-21) and the mature chain (residues 22-250). Isoform 2 is identical to isoform 1, except that a 32 amino acid segment is inserted in isoform 2 before residue 1 in isoform 1. Isoform 1 is predominantly expressed in brain whereas isoform 2 is preferentially expressed in prostate. KLK11 is a novel marker for ovarian and prostate cancer carcinomas (6-8). Recombinant human (rh) KLK11, after being activated by thermolysin, is active against a thioester substrate. This activity can be inhibited by AEBSF (R&D Systems, Catalog # El001), dichloroisocoumarin, and aprotinin. rhKLK11 produced by R&D Systems corresponds to isoform 1.

### References:

- 1. Yousef, G.M. and E.P. Diamandis (2001) Endocrine Rev. 22:184.
- 2. Yoshida, S. et al. (1998) Biochim. Biophys. Acta 1399:225.
- 3. Yousef, G.M. et al. (2000) Genomics 63:88.
- 4. Mitsui, S. et al. (2000) Biochem. Biophys. Res. Commun. 272:205.
- 5. Gan, L. et al. (2000) Gene 257:119.
- 6. Diamandis, E.P. et al. (2002) Cancer Res. 62:295.
- 7. Nakamura, T. et al. (2003) Urology 61:1042.
- 8. Borgono, C.A. et al. (2003) Int. J. Cancer 106:605.

Rev. 2/6/2018 Page 2 of 2

