

Human Kallikrein 2 Antibody

Monoclonal Mouse IgG₁ Clone # 426723 Catalog Number: MAB4104

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Kallikrein 2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Kallikrein 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, or B1 is observed.	
Source	Monoclonal Mouse IgG ₁ Clone # 426723	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 2 lle25-Pro261 Accession # P20151	
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.	

	Recommended Concentration	Sample
Western Blot	1 μg/mL	Recombinant Human Kallikrein 2 (Catalog # 4104-SE).
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Kallikrein 2 (Catalog # 4104-SE), see our available Western blot detection antibodies
Neutralization	,	ility to neutralize Recombinant Human Kallikrein 2 (2 μg/mL, Catalog # 4104-SE) cleavage of btide substrate PFR-AMC (0.1 mM). The Neutralization Dose (ND ₅₀) is typically 3.4 μg/mL.

Reconstitution	Reconstitute at 0.5 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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Kallikrein 2 (KLK2) is a secreted serine protease that is highly expressed in the human prostate gland (1). It is also known as the prostate-specific glandular kallikrein. The enzyme is highly specific for cleavage after arginine residues. KLK2 is able to activate the urokinase-type plasminogen activator (2). KLK2 is inhibited by serpins such as protein C inhibitor, antichymotrypsin, and plasminogen activator inhibitor 1 (3-5). KLK2 is structurally related to KLK3, the prostate-specific antigen (PSA). Like PSA, KLK2 is considered to be a biomarker for prostate cancer (6).

References:

- Chapelaine, P. et al. (1988) FEBS Lett. 236:205.
- Frenette, G. et al. (1997) Int. J. Cancer 71:897.
- Deperthes, D. et al. (1995) Biochim. Biophys. Acta 1245:311.
- 4. Grauer, L.S. et al. (1998) J. Androl. 19:407.
- Mikolajczyk S.D. et al. (1999) Cancer Res. 59:3927.
- Sardana, G. et al. (2008) Clin. Chem. 54:1951.



