

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 Ile25-Pro261 Accession # P20151
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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).

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