

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 12 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) Kallikrein 8, rhKallikrein 10, rhKallikrein 11, and rhKallikrein 12
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 12 Ala18-Asn248 Accession # Q9UKR0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

Human tissue Kallikrein 12, encoded by the KLK12 gene, is a secreted serine protease that belongs to the human tissue kallikrein family. It is present in many tissues, such as salivary gland, stomach and breast. KLK12 displays trypsin-like enzymatic activity. This activity can be inhibited by Serpin F2 (R&D Systems, Catalog # 1470-PI). The physiological functions of KLK12 still remain unclear. Its expression is modulated by steroid hormones and is down-regulated in breast cancer (2). Human KLK12 has three splice variants resulting from alternative splicing of the 3' end. The KLK12 produced by the R&D Systems corresponds to the full-length classical form, also known as isoform 2 (1). The amino acid sequence of human KLK12 is 80%, 77%, 71% and 66% to that of bovine, canine, mouse, and rat. The recombinant human KLK12 can be autoactivated under the conditions described in the Activity Assay Protocol. The active enzyme has the N-terminal sequence of I₂₂FNGTECGRNS.

PRODUCT SPECIFIC NOTICES

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