Mouse/Rat Kallikrein 7 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7688V
100 µg

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat Kallikrein 7 in Western blots. Detects mouse Kallikrein 7 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Kallikrein 7 is observed, and less than 1% cross-reactivity with recombinant mous
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Kallikrein 7 Gln22-Arg249 (predicted) Accession # Q91VE3
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

KLK7 (Kallikrein 7; also Serine protease 6, Thymopsin and Stratum corneum chymotryptic enzyme/SCCE) is a 27 kDa (predicted), secreted glycoprotein member of the kallikrein subfamily, peptidase S1 family of enzymes. It is an IL-4 and IL-13-inducible chymotrypsin-like serine protease that has restricted expression, being associated with stratum spinosum and granulosum keratinocytes, distal and proximal convoluted tubule epithelium, limited pancreatic acinar cells. In contrast, KLK7 is widely expressed by a variety of carcinoma cell types. KLK7 preferentially cleaves peptide bonds that contain an aromatic (Tyr or Phe) residue in the P1 (or postcleavage C-terminal amino acid) position. Molecules known to serve as substrates for KLK7 include chemerin, fibronectin, E-cadherin, LL37, procaspase-14, MMP-9 and desmoglein. The nature of the KLK7 substrates indicates that it plays a key role in intercellular adhesion dissolution with subsequent cell migration. Mouse KLK7 is synthesized as a 249 amino acid (aa) precursor. It contains a 21 aa signal sequence, a four aa prosegment, and a 224 aa mature region (aa 26-249). The mature molecule contains one large protease domain (aa 26-246) and a variable, three aa C-terminus that possesses either a VSW or ASR motif. Over aa 22-249, mouse KLK7 shares 75% and 85% aa sequence identity with human and hamster KLK7, respectively.

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