Mouse/Rat Kallikrein 7 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7688T
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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475