

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 8/Neurotrophin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 8 Gln29-Gly260 Accession # O60259
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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	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 8 (KLK8), also known as neurotrophin or ovasin, is a member of the human tissue kallikrein family (1). Two alternatively spliced forms exist, resulting in 260 (isoform 1) and 305 (isoform 2) amino acid sequences, respectively (2). Isoform 1 consists of a signal peptide (residues 1 to 28), a short pro peptide (residues 29 to 32) and the mature chain (residues 33 to 260). Isoform 2 is identical to isoform 1, except that a 45 amino acid segment is inserted in isoform 2 between residues 23 and 24 in isoform 1. Isoform 1 is predominantly expressed in pancreas whereas isoform 2 is preferentially expressed in adult brain and hippocampus, although both forms are expressed in fetal brain and placenta in comparable levels. The brain function of KLK8 seems evident in neurotrophin knockout mice that showed abnormalities of synapses and neurons and predisposition to global seizure activity (3, 4). KLK8 is a novel marker for ovarian and cervical cancer carcinomas (5, 6). Recombinant human KLK8, after being activated by lysyl endopeptidase, can cleave fibronectin and several small peptide substrates (7, 8). This activity can be inhibited by rhSerpins A5, rhSerpins F2 and AEBSF (R&D Systems, Catalog # 1266-PI, 1470-PI and EI001, respectively). Recombinant human KLK8 produced by R&D Systems corresponds to isoform 1.

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