



Anti-KLK14 polyclonal antibody [Biotin] (DPABY-464)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The human tissue kallikrein (KLK) gene family contains 15 members that play important roles in cancer. Notably, kallikrein-1, also known as tissue kallikrein, cleaves kininogen to release the vasoactive kinin peptide, bradykinin or lysyl-bradykinin. Kallikrein-3, called prostate specific antigen (PSA), is an established tumor marker that aids in the diagnosis, staging, and follow up of prostate cancer. Kallikrein-4 is specifically expressed in the prostate and over-expressed in prostate cancer. Kallikrein-5 is widely expressed but found at high levels in skin, breast, brain and testis; over-expression is an indicator of poor prognosis in ovarian cancer. Kallikrein-8 is expressed in the brain and is a novel marker of ovarian and cervical cancer. Human plasma kallikrein, a serine protease, is synthesized in the liver and circulates in the plasma bound to high molecular weight (HMW) kininogen or as a free zymogen. Once activated by its physiological activator, coagulation factor XII, it displays endopeptidase activity towards peptide bonds after arginine (preferred) and lysine. It cleaves HMW kininogen, its major physiological substrate, to release the potent vasodilator peptide bradykinin. It is also able to cleave a number of inactive precursor proteins to generate active products, such as plasminogen and prourokinase.

Specificity

Detects human Kallikrein14 in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human KLK1, 3, 4, 5, 7, 8, 11, 12, and 13 is observed.

Immunogen

Mouse myeloma cell line NS0-derived recombinant human Kallikrein14. Gln19-Met248, predicted Accession Number AAD50773

Isotype

IgG

Source/Host

Goat

Species Reactivity

Human

Purification

Antigen Affinity-purified

Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	KLK14 kallikrein-related peptidase 14 [Homo sapiens (human)]
Official Symbol	KLK14
Synonyms	KLK14; kallikrein-related peptidase 14; KLK-L6; kallikrein-14; hK14; kallikrein 14; kallikrein-like protein 6;
Entrez Gene ID	43847
Protein Refseq	NP_071329
UniProt ID	A0A024R4M6
Chromosome Location	19q13.3-q13.4
Function	serine-type endopeptidase activity;