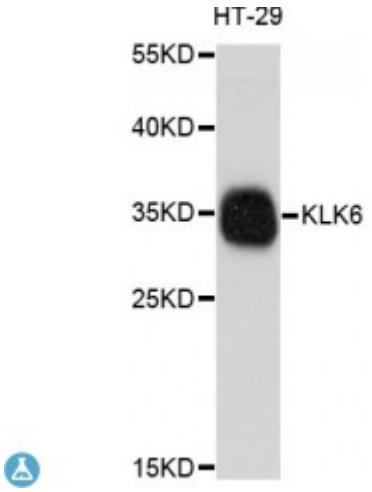
Anti-KLK6 Antibody



Description	This gene encodes a member of the kallikrein subfamily of the peptidase S1 family of serine proteases. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The encoded preproprotein is proteolytically processed to generate the mature protease. Expression of this protease is regulated by steroid hormones and may be elevated in multiple human cancers and in serum from psoriasis patients. The encoded protease may participate in the cleavage of amyloid precursor protein and alpha-synuclein, thus implicating this protease in Alzheimer's and Parkinson's disease, respectively. This gene is located in a gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.

Model	STJ113955
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 100 to the C-terminus of human KLK6 (NP_002765.1).
Gene ID	5653
Gene Symbol	KLK6
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	In fluids, highest levels found in milk of lactating women followed by cerebrospinal fluid, nipple aspirate fluid and breast cyst fluid, Also found in serum, seminal plasma and some amniotic fluids and breast tumor cytosolic

	extracts, Not detected in urine, At the tissue level, highest concentrations found in glandular tissues such as salivary glands followed by lung, colon, fallopian tube, placenta, breast, pituitary and kidney, Not detected in skin, spleen, bone, thyroid, heart, ureter, liver, muscle, en
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Kallikrein-6
Molecular Weight	26.856 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6367OMIM:602652
Alternative Names	Kallikrein-6
Function	Serine protease which exhibits a preference for Arg over Lys in the substrate P1 position and for Ser or Pro in the P2 position, Shows activity against amyloid precursor protein, myelin basic protein, gelatin, casein and extracellular matrix proteins such as fibronectin, laminin, vitronectin and collagen, Degrades alpha-synuclein and prevents its polymerization, indicating that it may be involved in the pathogenesis of Parkinson disease and other synucleinopathies, May be involved in regulation of axon outgrowth following spinal cord injury, Tumor cells treated with a neutralizing KLK6 antibody migrate less than control cells, suggesting a role in invasion and metastasis,
Cellular Localization	Secreted, Nucleus, nucleolus, Cytoplasm, Mitochondrion, Microsome,
Post-translational Modifications	Inactivated by autolytic cleavage after Arg-80