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KLK15 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58338

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9H2R5
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28087
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KLK15
Epitope Specificity	181-256/256
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Belongs to the peptidase S1 family. Kallikrein subfamily.Contains 1 peptidase S1 domain.
SUBUNIT	Belongs to the peptidase S1 family. Kallikrein subfamily. Contains 1 peptidase S1 domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The human tissue Kallikrein gene family encodes 15 serine proteases. All Kallikreins share structural similarities including cysteine residues, a catalytic triad of His, Asp, and Ser residues, typically five coding exons, and varied intron phases. Kallikreins are predominantly secreted as inactive zymogens prior to activation by cleavage of an N terminal peptide, and all function extracellularly. Kallikreins can be activated autocatalytically, via other Kallikreins, or additional proteases. While structurally similar, Kallikrein family members have distinct functions and have key roles in many physiological and pathological processes. Many human tissue Kallikreins also show promise as cancer biomarkers, which may facilitate earlier detection and characterization of many forms of cancer. Kallikrein 15 is one of the fifteen kallikrein subfamily members whose gene is located in a cluster on chromosome 19. Increased levels are found in prostate cancer, which indicates its possible use as a diagnostic or prognostic marker for prostate cancer. Four splice variants, each encoding a distinct isoform, have been described.

Additional Information

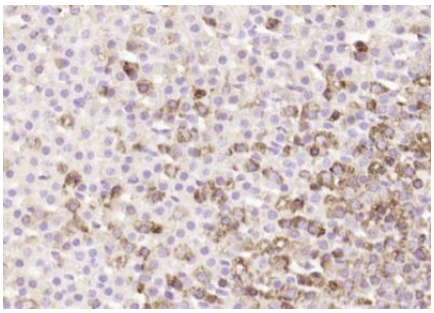
Gene ID	55554
Other Names	Kallikrein-15, 3.4.21.-, ACO protease, KLK15

Target/Specificity	Highest expression in the thyroid gland. Also expressed in the prostate, salivary, and adrenal glands and in the colon testis and kidney.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KLK15
Function	Protease whose physiological substrate is not yet known.
Cellular Location	Secreted.
Tissue Location	Highest expression in the thyroid gland. Also expressed in the prostate, salivary, and adrenal glands and in the colon testis and kidney.

Images



Paraformaldehyde-fixed, paraffin embedded (rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLK15) Polyclonal Antibody, Unconjugated (AP58338) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.