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KRT4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6724b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P19013
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18906
Calculated MW	56144
Antigen Region	386-415

Additional Information

Gene ID	3851
Other Names	Keratin, type II cytoskeletal 4, Cytokeratin-4, CK-4, Keratin-4, K4, Type-II keratin Kb4, KRT4, CYK4
Target/Specificity	This KRT4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 386-415 amino acids from the C-terminal region of human KRT4.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KRT4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KRT4 (HGNC:6441)
Synonyms	CYK4

Function	Structural component of intermediate filaments in mucosal stratified squamous epithelia. Forms heteropolymers with the type I keratin KRT13, assembling into keratin intermediate filament networks that provides structural integrity and mechanical stability of the mucosal epithelium.
Tissue Location	Detected in the suprabasal layer of the stratified epithelium of the esophagus, exocervix, vagina, mouth and lingual mucosa, and in cells and cell clusters in the mucosa and serous gland ducts of the esophageal submucosa (at protein level). Expressed widely in the exocervix and esophageal epithelium, with lowest levels detected in the basal cell layer.

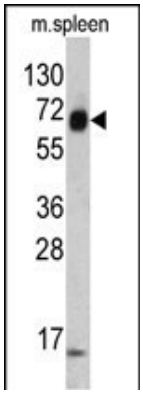
Background

The protein is a member of the keratin family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in differentiated layers of the mucosal and esophageal epithelia with family member KRT13.

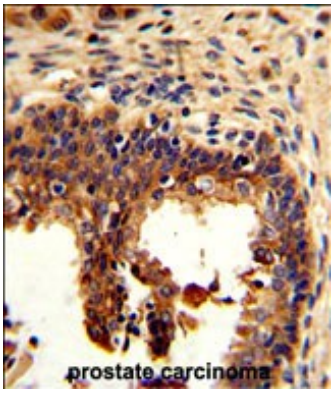
References

Zhang,J.M., Oral Dis 15 (1), 100-105 (2009)
Samen,U., Infect. Immun. 75 (11), 5405-5414 (2007)

Images

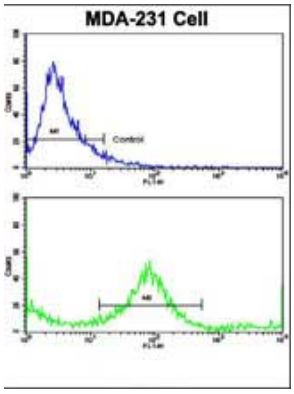


Western blot analysis of KRT4 antibody (C-term) (Cat. #AP6724b) in mouse spleen tissue lysates (35ug/lane). KRT4 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human prostate carcinoma reacted with KRT4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of MDA-231 cells using KRT4 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.