



Cytokeratin 4 (CK4) (ABT167R) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18199
Isotype	IgG
Reactivity	Human
Applications	IHC
Gene Name	KRT4
Protein Name	Keratin, type II cytoskeletal 4 (Cytokeratin-4) (CK-4) (Keratin-4) (K4) (Type-II keratin Kb4)
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of Cytokeratin 4
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	CK 4 ; CK-4 ; CK4 ; CYK4 ; Cytokeratin 4 ; CytokeRatin-4 ; CytokeRatin4 ; FLJ31692 ; K2C4_HUMAN ; K4 ; KeRatin 4 ; KeRatin ; KeRatin type II cytoskeletal 4 ; KeRatin-4 ; KeRatin4 ; KRT 4 ; Krt4 ; type II cytoskeletal 4 ; Type-II keRatin Kb4
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasmic, Membranous
Tissue Specificity	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.
Function	Disease:Defects in KRT4 are a cause of white sponge nevus of cannon (WSN) [MIM:193900]. WSN is a rare autosomal dominant disorder which predominantly affects non-cornified stratified squamous epithelia. Clinically, it is characterized by





the presence of soft, white, and spongy plaques in the oral mucosa. The characteristic histopathologic features are epithelial thickening, parakeratosis, and vacuolization of the suprabasal layer of oral epithelial keratinocytes. Less frequently the mucous membranes of the nose, esophagus, genitalia and rectum are involved. **miscellaneous:** There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa). **polymorphism:** Three alleles of K4 are known: K4A2 (shown here), K4A1 and K4B. **similarity:** Belongs to the intermediate filament family. **subunit:** Heterotetramer of two type I and two type II keratins. Keratin-4 is generally associated with keratin-13. **tissue specificity:** 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

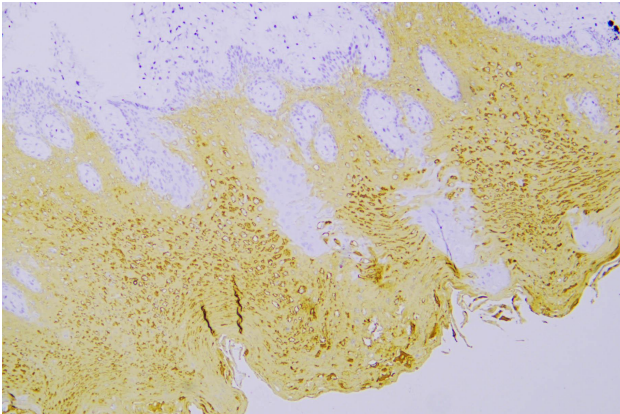
keratin 4(KRT4) Homo sapiens The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in differentiated layers of the mucosal and esophageal epithelia with family member KRT13. Mutations in these genes have been associated with White Sponge Nevus, characterized by oral, esophageal, and anal leukoplakia. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human oral squamous cell carcinoma was stained with anti-Cytokeratin 4 (CK4) (ABT167R) rabbit mAb



Human cervix was stained with anti-Cytokeratin 4 (CK4) (ABT167R) rabbit mAb

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检测服务:

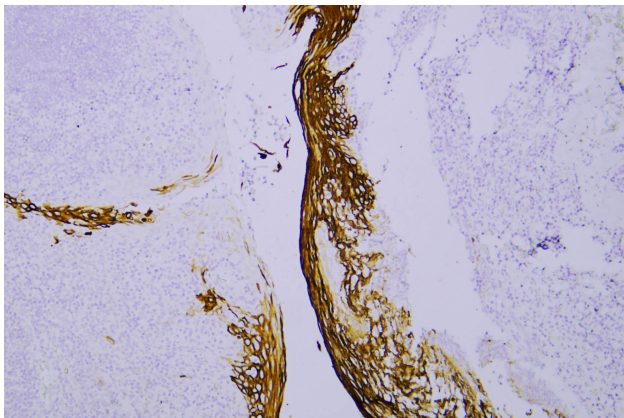
ELISA检测及定制服务 | 生化检测 | PCR、QPCR检测 | WB检测
ICO-IP检测 | 切片 | 染色 | 免疫组化 | 免疫荧光 | 透射电镜全套
| 宏基因组、转录组、基因组、蛋白组、代谢组测序



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Human tonsil was stained with anti-Cytokeratin 4 (CK4) (ABT167R) rabbit mAb

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