

KRT14 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6713c

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	P02533
Other Accession	Q6IFU7 , Q6IFX2 , Q6IFU8 , Q9QWL7 , Q04695 , A1L595 , Q6IFV1 , Q61781
Reactivity	Human, Rat, Mouse
Predicted	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18415
Calculated MW	51561
Antigen Region	276-303

Additional Information

Gene ID	3861
Other Names	Keratin, type I cytoskeletal 14, Cytokeratin-14, CK-14, Keratin-14, K14, KRT14
Target/Specificity	This KRT14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 276-303 amino acids from the Central region of human KRT14.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 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	KRT14 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KRT14
Function	The nonhelical tail domain is involved in promoting KRT5- KRT14 filaments to self-organize into large bundles and enhances the mechanical properties

involved in resilience of keratin intermediate filaments in vitro.

Cellular Location

Cytoplasm. Nucleus. Note=Expressed in both as a filamentous pattern.

Tissue Location

Expressed in the corneal epithelium (at protein level) (PubMed:26758872). Detected in the basal layer, lowered within the more apically located layers specifically in the stratum spinosum, stratum granulosum but is not detected in stratum corneum. Strongly expressed in the outer root sheath of anagen follicles but not in the germinative matrix, inner root sheath or hair (PubMed:9457912). Found in keratinocytes surrounding the club hair during telogen (PubMed:9457912).

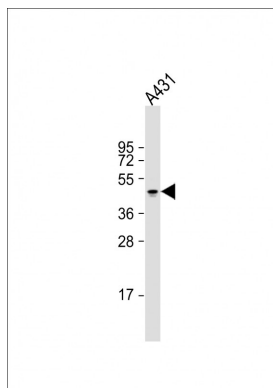
Background

KRT14 is a member of the keratin family, the most diverse group of intermediate filaments. This protein, a type I keratin, is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells.

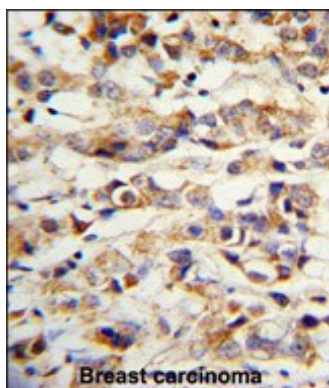
References

Barcelos,A.C., J. Cutan. Pathol. 36 (6), 647-654 (2009) Romano,R.A., PLoS ONE 4 (5), E5623 (2009)

Images

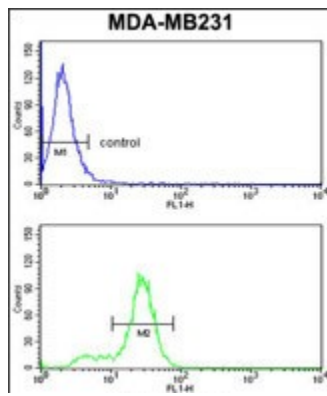


Anti-KRT14 Antibody (Center) at 1:2000 dilution + A431 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human breast carcinoma with KRT14 Antibody (Center), 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.

KRT14 Antibody (Center) (Cat.#AP6713c) flow cytometry analysis of MDA-MB231 cells (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'.