

ARG66971 anti-Cytokeratin 14 + 17 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Cytokeratin 14 + 17
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Cytokeratin 14 + 17
Species	Human
Immunogen	Synthetic peptide around the middle region of Human Cytokeratin 14.
Conjugation	Un-conjugated
Alternate Names	K14; CK-14; Cytokeratin-14; Keratin, type I cytoskeletal 14; EBS3; EBS4; NFJ; Keratin-14; CK14; KRT17; Keratin 17; Keratin, Type I Cytoskeletal 17; Keratin 17, Type I; Cytokeratin-17; CK-17; PCHC1; K17; Keratin-17; PC2; PC

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100 - 1:400
	IHC-P	1:100 - 1:300
	WB	1:1000 - 1:3000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	MDA-MB-231; Colorectal carcinoma; Breast carcinoma	
Observed Size	~ 45 - 55 kDa	

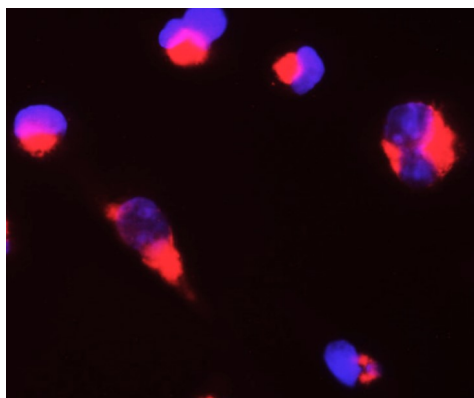
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300, 20% Glycerol and 3% BSA.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol and 3% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

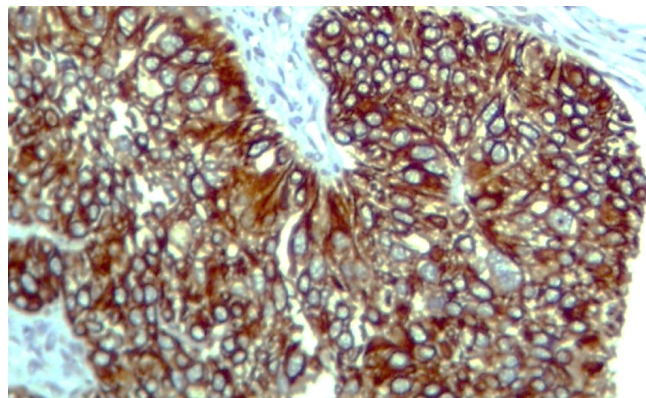
Gene Symbol	KRT14 + KRT17
Gene Full Name	keratin 14 + 17, type I
Background	Cytokeratin 14 encodes a member of the keratin family, the most diverse group of intermediate filaments. This gene product, a type I keratin, is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Mutations in the genes for these keratins are associated with epidermolysis bullosa simplex. At least one pseudogene has been identified at 17p12-p11. [provided by RefSeq, Jul 2008]
Function	The nonhelical tail domain of Cytokeratin 14 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. [UniProt]
Calculated Mw	52 kDa
PTM	A disulfide bond is formed between rather than within filaments and promotes the formation of a keratin filament cage around the nucleus. Ubiquitinated by the BCR(KLHL24) E3 ubiquitin ligase complex. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Note=Expressed in both as a filamentous pattern. [UniProt]

Images



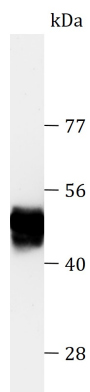
ARG66971 anti-Cytokeratin 14 + 17 antibody ICC/IF image

Immunofluorescence: MDA-MB-231 cells were fixed with 4% paraformaldehyde at RT for 10 min, permeabilized with 0.1% NP-40 at RT for 10 min and then cells were blocked with 5% BSA at RT for 30 min and stained with ARG66971 anti-Cytokeratin 14 + 17 antibody (red) at 1:150 dilution at 4°C for overnight. DAPI (blue) was used for nuclear staining.



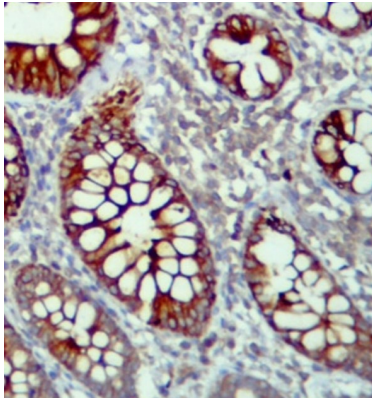
ARG66971 anti-Cytokeratin 14 + 17 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG66971 anti-Cytokeratin 14 + 17 antibody at 1:100 dilution.



ARG66971 anti-Cytokeratin 14 + 17 antibody WB image

Western blot: A431 cell lysate stained with ARG66971 anti-Cytokeratin 14 + 17 antibody at 1:2000 dilution, overnight at 4°C.



ARG66971 anti-Cytokeratin 14 + 17 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colorectal carcinoma tissue stained with ARG66971 anti-Cytokeratin 14 + 17 antibody at 1:100 dilution.