

anti-Human Cytokeratin 14 Antibody | anti-KRT14 antibody

Anti-Cytokeratin 14 [2G4]

CATALOG # AAA72377	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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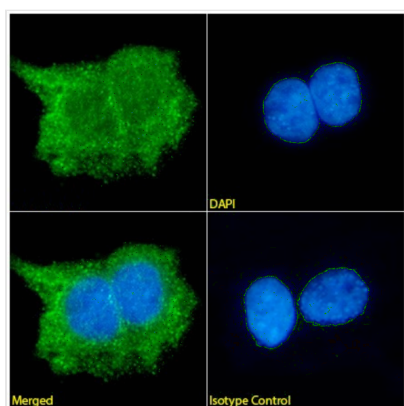
PRODUCT SYNONYMS

Cytokeratin 14; Anti-Cytokeratin 14 [2G4]; CK14; CK-14; CK 14; K14; KRT14; keratin type I cytoskeletal 14; cytokeratin-14; keratin-14; CGMCC NO 20761; L1002; anti-KRT14 antibody

PRODUCT SPECIFICATIONS

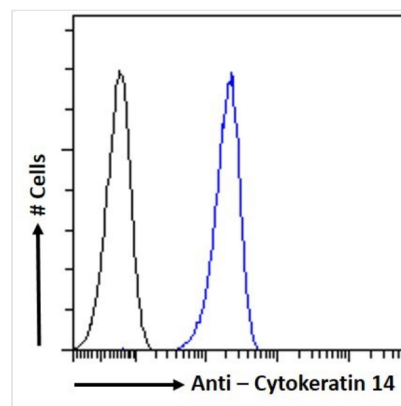
Reactivity	Human
Isotype	Rabbit IgG kappa
Clone Number	2G4
Specificity	This antibody is capable of binding human cytokeratin 14. Cytokeratins are intermediate filaments found in the intracytoplasmic cytoskeleton of epithelial tissue. The nonhelical tail domain is involved in promoting KRT5-KRT14 filaments to self-organize into large bundles and enhances the mechanical properties involved in resilience of keratin intermediate filaments in vitro.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-KRT14 antibody	IHC (Immunohistochemistry), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of A431 cells with anti-Cytokeratin 14 antibody 2G4 . Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton, on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 2G4 (AAA72377) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, AAA72377, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-Cytokeratin 14 antibody 2G4 . Paraformaldehyde fixed A431 cells permeabilized with 0.5% Triton were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 2G4 (AAA72377, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-KRT14 antibody	The original antibody was generated by immunizing 4-6 weeks old female ICR mice with recombinant protein comprising amino acids 458-472 of cytokeratin 7 in equal volume of Freund's incomplete adjuvant. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.
Product Categories/Family for anti-KRT14 antibody	muscle; microfilaments; keratin; cancer; oncology

NCBI AND UNIPROT INFORMATION

NCBI GI #	229463044
NCBI GeneID	3861
UniProt Accession #	P02533; Q14715; Q53XY3; Q9BUE3; Q9UBN2; Q9UBN3; Q9UCY4
Molecular Weight	472
NCBI Official Full Name	Keratin, type I cytoskeletal 14
NCBI Official Synonym Full Names	keratin 14
NCBI Official Symbol	KRT14
NCBI Official Synonym Symbols	K14; NFJ; CK14; EBS3; EBS4
NCBI Protein Information	keratin, type I cytoskeletal 14; CK-14; keratin-14; cytokeratin 14; cytokeratin-14; keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebner)
UniProt Protein Name	Keratin, type I cytoskeletal 14
UniProt Gene Name	KRT14
UniProt Synonym Gene Names	CK-14; K14
UniProt Entry Name	K1C14_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-antibody/cytokeratin-14/72377>