

## ARG66340 anti-Cytokeratin 7 antibody [SQab1888]

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1888] recognizes Cytokeratin 7
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1888
Isotype	IgG
Target Name	Cytokeratin 7
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 1-100 of Cytokeratin 7.
Conjugation	Un-conjugated
Alternate Names	SCL; Sarcolectin; CK-7; Cytokeratin-7; CK7; Keratin, type II cytoskeletal 7; Keratin-7; K7; K2C7; Type-II keratin Kb7

### Application Instructions

Application table	Application	Dilution
	FACS	1:200 - 1:800
	ICC/IF	1:800 - 1:2000
	IHC-P	1:1600 - 1:3200
	IP	1:50
	WB	1:2000 - 1:5000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed using Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

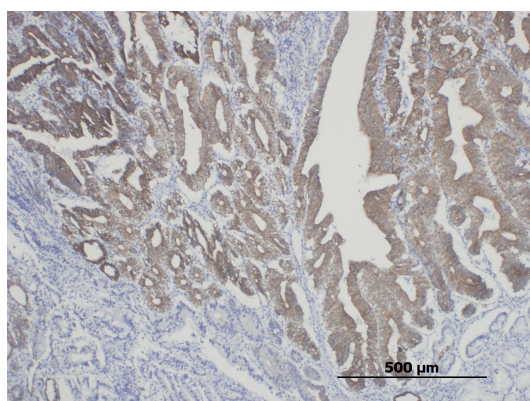
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA

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.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

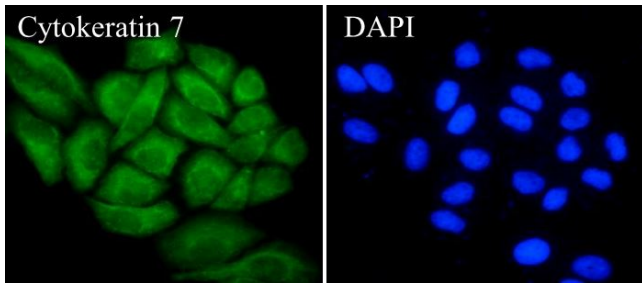
Gene Symbol	KRT7
Gene Full Name	keratin 7, type II
Background	Cytokeratin 7 is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. The genes encoding the type II cytokeratins are clustered in a region of chromosome 12q12-q13. Alternative splicing may result in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]
Function	Cytokeratin 7 blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the translational regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7). [UniProt]
Highlight	<p>Related Antibody Duos and Panels:  <a href="#">ARG30318 CK7 / CK20 Carcinoma Antibody Duo</a></p> <p>Related products:  <a href="#">Cytokeratin 7 antibodies; Cytokeratin 7 Duos / Panels; Anti-Rabbit IgG secondary antibodies;</a></p> <p>Related news:  <a href="#">Cancer Pathology Markers (SQ clones)</a>  <a href="#">More than a biomarker, CA19-9 is a therapeutic target of pancreatic cancer</a></p>
Research Area	CK7/CK20 Carcinoma Study antibody
Calculated Mw	51 kDa
PTM	Arg-20 is dimethylated, probably to asymmetric dimethylarginine. [UniProt]

## Images



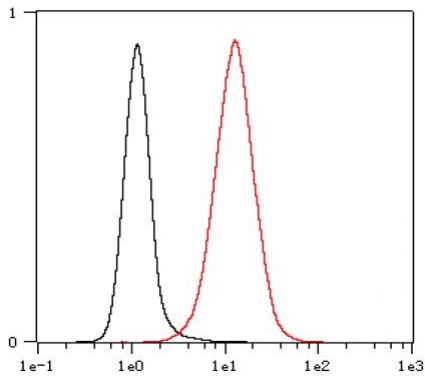
ARG66340 anti-Cytokeratin 7 antibody [SQab1888] IHC-P image

Immunohistochemistry: 10% Formalin-fixed and paraffin-embedded Mouse tumor tissue. Antigen Retrieval: Heat mediation was performed using Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66340 anti-Cytokeratin 7 antibody [SQab1888] at 1:3000 dilution for 30 min at 37°C.



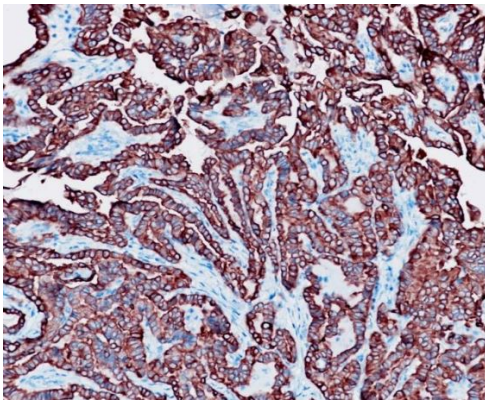
ARG66340 anti-Cytokeratin 7 antibody [SQab1888] ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% paraformaldehyde for 30 min at RT, permeabilized with 0.1% Triton X-100 for 10 min at RT then blocked with 10% goat serum for 30 min at RT. Cells were stained with ARG66340 anti-Cytokeratin 7 antibody [SQab1888] (green) at 1:2,000 and 4°C. DAPI (blue) was used as the nuclear counter stain.



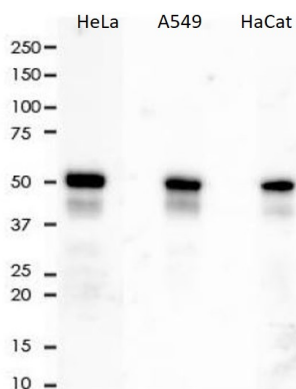
ARG66340 anti-Cytokeratin 7 antibody [SQab1888] FACS image

Flow Cytometry: HeLa cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were stained with ARG66340 anti-Cytokeratin 7 antibody [SQab1888] (red) at 1:800 dilution in 1x PBS/1% BSA for 30 min at RT, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (black) was used as a control.



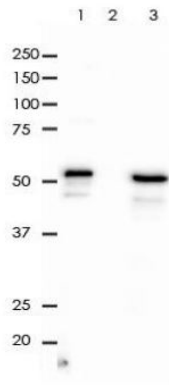
ARG66340 anti-Cytokeratin 7 antibody [SQab1888] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human thyroid cancer tissue. Antigen Retrieval: Heat mediation was performed using Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66340 anti-Cytokeratin 7 antibody [SQab1888] at 1:3200 dilution.



ARG66340 anti-Cytokeratin 7 antibody [SQab1888] WB image

Western blot: 10 µg of HeLa, A549 and HaCat cell lysates stained with ARG66340 anti-Cytokeratin 7 antibody [SQab1888] at 1:10000 dilution.



#### ARG66340 anti-Cytokeratin 7 antibody [SQab1888] IP image

Immunoprecipitation: 0.4 mg of HeLa whole cell lysate immunoprecipitated (1:50) and stained with ARG66340 anti-Cytokeratin 7 antibody [SQab1888]. 1) ARG66340 IP in HeLa whole cell lysate, 2) PBS instead of ARG66340 in HeLa whole cell lysate, and 3) HeLa whole cell lysate, 10  $\mu$ g (input).