

ARG66334 anti-Cytokeratin 18 antibody [SQab1882]

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

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1882] recognizes Cytokeratin 18
Tested Reactivity	Hu, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1882
Isotype	IgG
Target Name	Cytokeratin 18
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human Cytokeratin 18.
Conjugation	Un-conjugated
Alternate Names	Keratin, type I cytoskeletal 18; Cytokeratin-18; K18; CK-18; Cell proliferation-inducing gene 46 protein; Keratin-18; CYK18

Application Instructions

Application table	Application	Dilution
	FACS	1:800 - 1:2000
	ICC/IF	1:800 - 1:2000
	IHC-P	1:800 - 1:1600
	IP	1:25
	WB	1:2000 - 1:5000
Application Note	IHC-P: Antigen Retrieval: Heat mediated 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

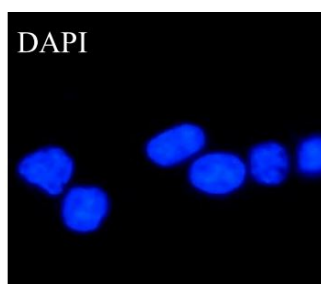
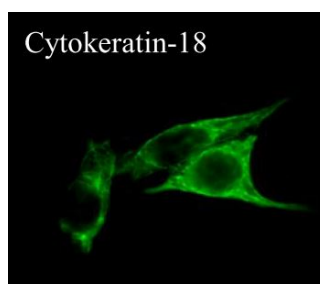
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA

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

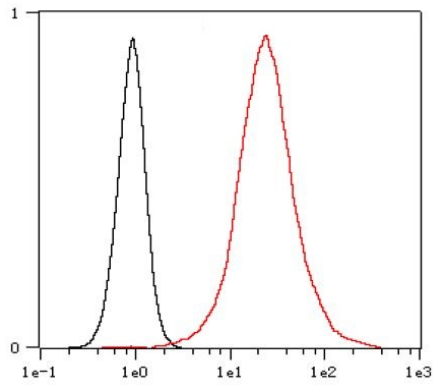
Gene Symbol	KRT18
Gene Full Name	keratin 18, type I
Background	Cytokeratin 18, together with its filament partner Cytokeratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Cytokeratin 18 involved in the uptake of thrombin-antithrombin complexes by hepatic cells. When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection. [UniProt]
Highlight	Related products: Anti-Rabbit IgG secondary antibodies: Related news: Cancer Pathology Markers (SQ clones)
Calculated Mw	48 kDa
PTM	Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7. O-GlcNAcylation increases solubility, and decreases stability by inducing proteasomal degradation. [UniProt]

Images



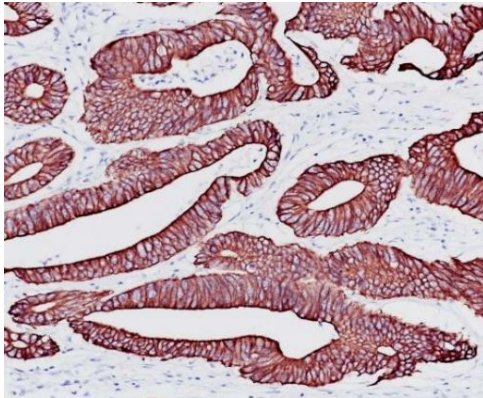
ARG66334 anti-Cytokeratin 18 antibody [SQab1882] ICC/IF image

Immunofluorescence: HCT-116 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 ARG66334 anti-Cytokeratin 18 antibody [SQab1882] (green) at 1:2,000 and 4°C. DAPI (blue) was used as the nuclear counter stain.



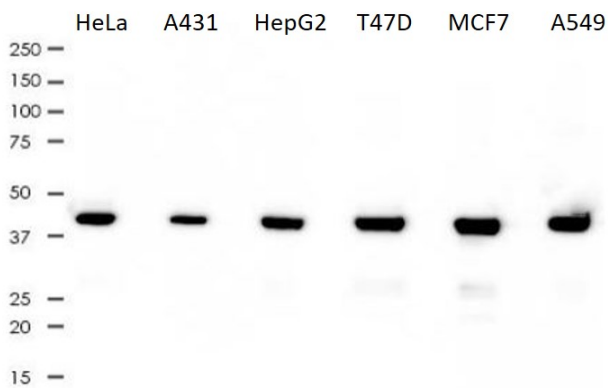
ARG66334 anti-Cytokeratin 18 antibody [SQab1882] FACS image

Flow Cytometry: HCT-116 cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were stained with ARG66334 anti-Cytokeratin 18 antibody [SQab1882] (red) at 1:2,000 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. .



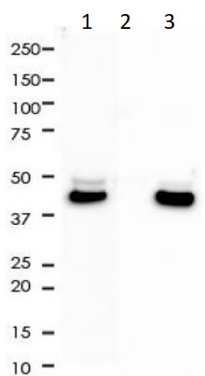
ARG66334 anti-Cytokeratin 18 antibody [SQab1882] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded colonic adenocarcinoma tissue stained with ARG66334 anti-Cytokeratin 18 antibody [SQab1882] at 1:1,600 dilution. Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0.



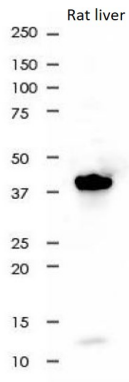
ARG66334 anti-Cytokeratin 18 antibody [SQab1882] WB image

Western blot: 10 µg of HeLa, A431, HepG2, T47D, MCF7 and A549 cell lysates stained with ARG66334 anti-Cytokeratin 18 antibody [SQab1882] at 1:10000 dilution.



ARG66334 anti-Cytokeratin 18 antibody [SQab1882] IP image

Immunoprecipitation: 0.4 mg of HeLa whole cell lysate immunoprecipitated (1:25) and stained with ARG66334 anti-Cytokeratin 18 antibody [SQab1882]. 1) ARG66334 IP in HeLa whole cell lysate, 2) PBS instead of ARG66334 in HeLa whole cell lysate, and 3) HeLa whole cell lysate, 10 µg (input).



ARG66334 anti-Cytokeratin 18 antibody [SQab1882] WB image

Western blot: 10 µg of Rat liver lysate stained with ARG66334 anti-Cytokeratin 18 antibody [SQab1882] at 1:5000 dilution.