ARG66248
anti-Cytokeratin 20 antibody [SQab1737]

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

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1737] recognizes Cytokeratin 20
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1737
Isotype	IgG
Target Name	Cytokeratin 20
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human Cytokeratin 20.
Conjugation	Un-conjugated
Alternate Names	KRT21; CK20; K20; CD20; CK-20; Keratin-20; Cytokeratin-20; Keratin, type I cytoskeletal 20; Protein IT

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:1000
ICC/IF	1:50 - 1:2000
IHC-P	1:800 - 1:1600
IP	1:50
WB	1:2000 - 1:10000

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in 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

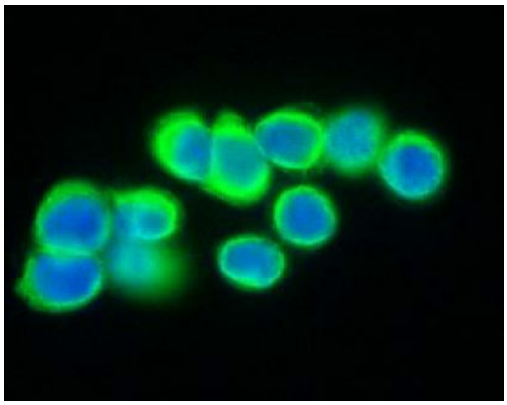
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot 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

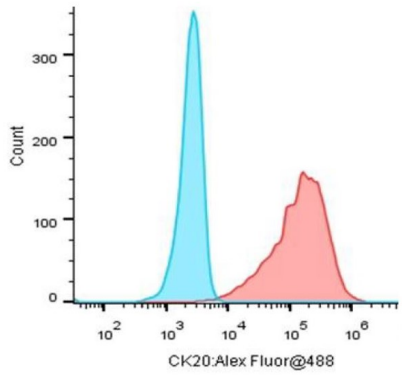
Gene Symbol	KRT20
Gene Full Name	keratin 20, type I
Background	Cytokeratin 20 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. This cytokeratin is a major cellular protein of mature enterocytes and goblet cells and is specifically expressed in the gastric and intestinal mucosa. The type I cytokeratin genes are clustered in a region of chromosome 17q12-q21. [provided by RefSeq, Jul 2008]
Function	Cytokeratin 20 plays a significant role in maintaining keratin filament organization in intestinal epithelia. When phosphorylated, plays a role in the secretion of mucin in the small intestine. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30318 CK7 / CK20 Carcinoma Antibody Duo Related products: Cytokeratin 20 antibodies; Cytokeratin 20 Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: Cancer Pathology Markers (SQ clones) More than a biomarker, CA19-9 is a therapeutic target of pancreatic cancer
Research Area	CK7/CK20 Carcinoma Study antibody
Calculated Mw	48 kDa
PTM	Hyperphosphorylation at Ser-13 occurs during the early stages of apoptosis but becomes less prominent during the later stages. Phosphorylation at Ser-13 also increases in response to stress brought on by cell injury (By similarity). Proteolytically cleaved by caspases during apoptosis. Cleavage occurs at Asp-228. [UniProt]

Images



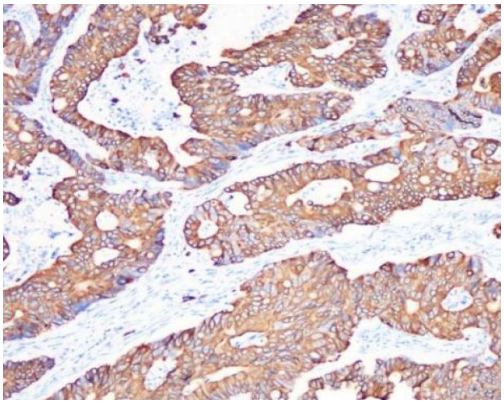
ARG66248 anti-Cytokeratin 20 antibody [SQab1737] ICC/IF image

Immunofluorescence: HT-29 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 half an hour at RT. Samples were stained with ARG66248 anti-Cytokeratin 20 antibody [SQab1737] (green) at 1:200, 4°C.



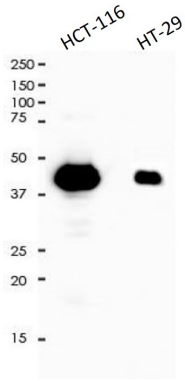
ARG66248 anti-Cytokeratin 20 antibody [SQab1737] FACS image

Flow Cytometry: HT-29 cells stained with ARG66248 anti-Cytokeratin 20 antibody [SQab1737] (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the primary antibody at 1:1000 dilution in 1x PBS/1% BSA for 30 min at 4°C. The secondary antibody used was a Goat anti-rabbit Alexa Fluor® 488 (IgG H+L) at 1:2000 dilution for 20 min at 4°C. Unlabelled sample (Blue) was used as a control.



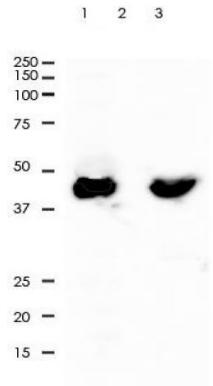
ARG66248 anti-Cytokeratin 20 antibody [SQab1737] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded colonic adenocarcinoma stained with ARG66248 anti-Cytokeratin 20 antibody [SQab1737] at 1:800. Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).



ARG66248 anti-Cytokeratin 20 antibody [SQab1737] WB image

Western blot: 10 µg of HCT-116 and HT-29 cell lysates stained with ARG66248 anti-Cytokeratin 20 antibody [SQab1737] at 1:5000 dilution.



ARG66248 anti-Cytokeratin 20 antibody [SQab1737] IP image

Immunoprecipitation: Cytokeratin 20 was immunoprecipitated from 0.5 mg of HT-29 lysate with ARG66248 anti-Cytokeratin 20 antibody [SQab1737] at 1:50 dilution.

1. IP by using ARG66248 in HT-29 whole cell lysate
2. PBS instead of ARG66248 in HT-29 whole cell lysate
3. 10 µg of HT-29 whole cell lysate (input)