# ARG66815
# anti-Cytokeratin 8 + 18 antibody [SQab20229]

Package: 100 µl
Store at: -20°C

## Summary

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| Product Description | Recombinant Rabbit Monoclonal antibody [SQab20229] recognizes Cytokeratin 8 + 18 |
| Tested Reactivity | Hu |
| Tested Application | IHC-P |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone | SQab20229 |
| Isotype | IgG |
| Target Name | Cytokeratin 8 + 18 |
| Species | Human |
| Immunogen | Synthetic peptide within aa. 383 to C-terminal of Human Cytokeratin 8 and synthetic peptide within aa. 330-430 of Human Cytokeratin 18. |
| Conjugation | Un-conjugated |
| Alternate Names | KRT8: Keratin, type II cytoskeletal 8; KO; CYK8; CK-8; Type-II keratin Kb8; K2C8; CARD2; Keratin-8; K8; CK8; Cytokeratin-8<br>KRT18: 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 |
|---|---|
| IHC-P | 1:100 - 1:200 |

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C - 25°C) for 30 minutes.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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| 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. |

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

## Bioinformation

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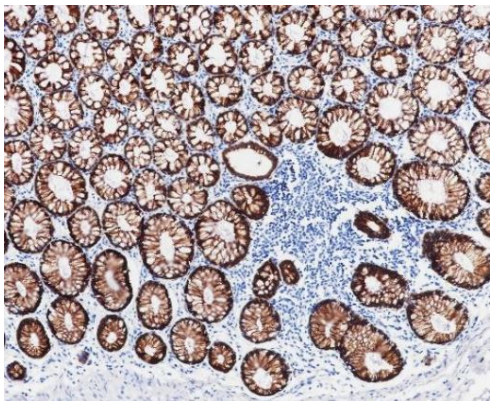
| Gene Symbol | KRT8; KRT18 |
| Gene Full Name | keratin 8, type II; keratin 18, type I |
| Background | Cytokeratin 18, together with its filament partner Cytokeratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial 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] |
| Calculated Mw | 54 kDa |
| PTM | KRT8: Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization.<br><br>O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation.<br>O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner. [UniProt]<br><br>KRT18: Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6.<br><br>Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7.<br><br>O-GlcNAcylation increases solubility, and decreases stability by inducing proteasomal degradation. [UniProt] |
| Cellular Localization | KRT8: Cytoplasm. Nucleus, nucleoplasm. Nucleus matrix. [UniProt] |

## Images



ARG66815 anti-Cytokeratin 8 + 18 antibody [SQab20229] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human colon tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66815 anti-Cytokeratin 8 + 18 antibody [SQab20229].