ARG59499
anti-Cytokeratin 8 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Cytokeratin 8
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Cytokeratin 8
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-483 of Human Cytokeratin 8 (NP_002264.1).
Conjugation	Un-conjugated
Alternate Names	Keratin, type II cytoskeletal 8; KO; CYK8; CK-8; Type-II keratin Kb8; K2C8; CARD2; Keratin-8; K8; CK8; Cytokeratin-8

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa and NIH/3T3
Observed Size	53 kDa

Properties

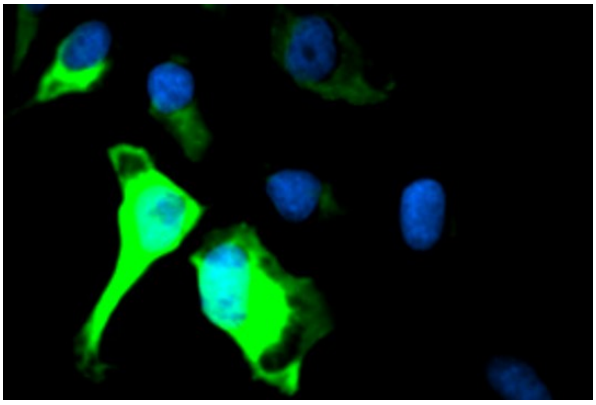
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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

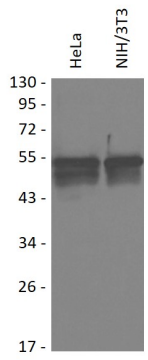
Gene Symbol	KRT8
Gene Full Name	keratin 8, type II
Background	This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]
Function	Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle. [UniProt]
Calculated Mw	54 kDa
PTM	Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation. O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner. [UniProt]
Cellular Localization	Cytoplasm. Nucleus, nucleoplasm. Nucleus matrix. [UniProt]

Images



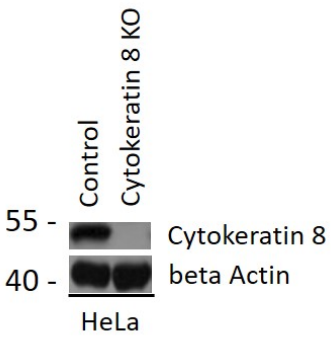
ARG59499 anti-Cytokeratin 8 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG59499 anti-Cytokeratin 8 antibody (green).



ARG59499 anti-Cytokeratin 8 antibody WB image

Western blot: 25 µg of HeLa and NIH/3T3 cell lysates stained with ARG59499 anti-Cytokeratin 8 antibody at 1:1000 dilution.



ARG59499 anti-Cytokeratin 8 antibody WB image

Western blot: 25 µg of extracts from normal (control) and KRT8 knockout (KO) HeLa cells, using ARG59499 anti-Cytokeratin 8 antibody at 1:1000 dilution.