ARG56044
anti-Cytokeratin 8 antibody [B22.1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [B22.1] recognizes Cytokeratin 8
Tested Reactivity	Hu
Species Does Not React With	Ms, Rat, Chk, Xenopus laevis
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	B22.1
Isotype	IgG1, kappa
Target Name	Cytokeratin 8
Species	Human
Immunogen	A cytoskeletal preparation from HeLa cells.
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
FACS	0.5 - 1 µg/10^6 cells
ICC/IF	2 - 5 µg/ml
IHC-P	2 - 5 µg/ml
WB	1 - 2 µg/ml

Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HCT-116
Observed Size	~ 46 kDa

Properties

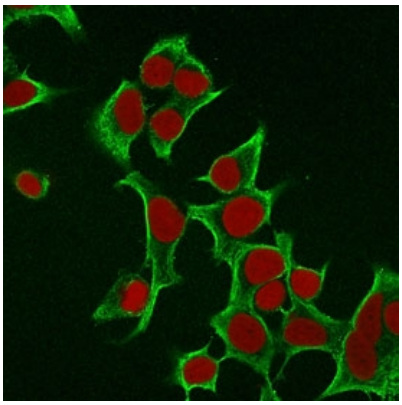
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA

Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
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 or below. 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

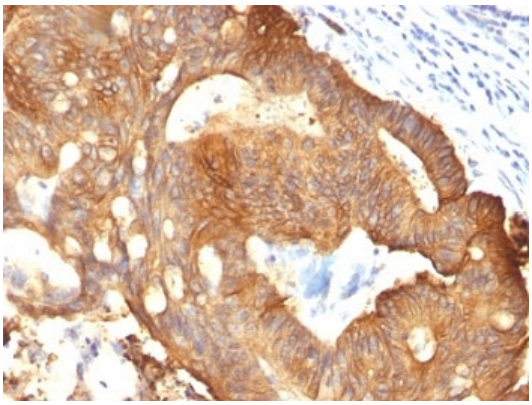
Database links	GeneID: 3856 Human Swiss-port # P05787 Human
Gene Symbol	KRT8
Gene Full Name	keratin 8, type II
Background	This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in 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.
Cellular Localization	Cytoplasmic

Images



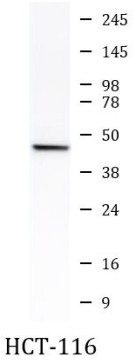
ARG56044 anti-Cytokeratin 8 antibody [B22.1] ICC/IF image

Immunofluorescence: Permeabilized MCF7 cells stained with ARG56044 anti-Cytokeratin 8 antibody [B22.1] (green). Reddot (red) for nuclear staining.



ARG56044 anti-Cytokeratin 8 antibody [B22.1] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded colon carcinoma stained with ARG56044 anti-Cytokeratin 8 antibody [B22.1].



ARG56044 anti-Cytokeratin 8 antibody [B22.1] WB image

Western blot: HCT-116 cell lysate stained with ARG56044 anti-Cytokeratin 8 antibody [B22.1].