

## ARG62973 anti-Cytokeratin 18 antibody [DC10] (Biotin)

Package: 100 µg  
Store at: 4°C

### Summary

Product Description	Biotin-conjugated Mouse Monoclonal antibody [DC10] recognizes Cytokeratin 18
Tested Reactivity	Hu
Species Does Not React With	Ms, Rat, Bov, Dog, Hm, Pig, Sheep
Tested Application	ELISA, FACS, ICC/IF, IHC-P, IP, WB
Specificity	The clone DC-10 reacts with Cytokeratin 18 (45 kDa). Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.
Host	Mouse
Clonality	Monoclonal
Clone	DC10
Isotype	IgG1
Target Name	Cytokeratin 18
Species	Human
Immunogen	Human breast carcinoma cell line PMC-42.
Conjugation	Biotin
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
	ELISA	Assay-dependent
	FACS	2 - 6 µg/ml
	ICC/IF	Assay-dependent
	IHC-P	Assay-dependent
	IP	Assay-dependent
	WB	1 - 2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HT-29	
Observed Size	~ 43 kDa	

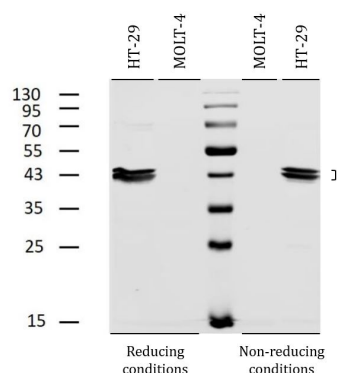
### Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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

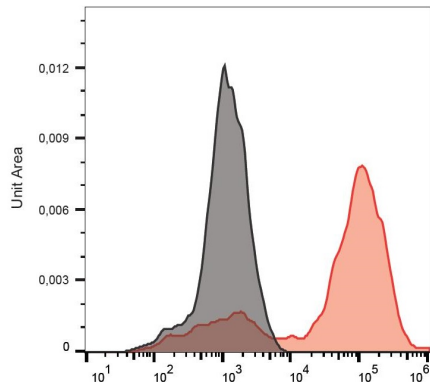
Database links	<a href="#">GeneID: 3875 Human</a> <a href="#">Swiss-port # P05783 Human</a>
Gene Symbol	KRT18
Gene Full Name	keratin 18, type I
Background	Cytokeratin 18, together with its filament partner Cytokeratin 8, are perhaps the most commonly found members of the intermediate filament gene family. 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]
Research Area	Controls and Markers antibody; Signaling Transduction antibody
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.

## Images



ARG62973 anti-Cytokeratin 18 antibody [DC10] (Biotin) WB image

Western blot: HT-29 (positive) and MOLT-4 (negative control) cell lysates stained with ARG62973 anti-Cytokeratin 18 antibody [DC10] (Biotin) at 2 µg/ml dilution, under reducing and non-reducing conditions.



#### ARG62973 anti-Cytokeratin 18 antibody [DC10] (Biotin) FACS image

Flow Cytometry: HeLa cells stained with ARG62973 anti-Cytokeratin 18 antibody [DC10] (Biotin) (red) at 6  $\mu\text{g/ml}$  dilution, followed by Streptavidin (APC). Blank sample (black).