

#4548 Store at -20°C

Keratin 18 (DC10) Mouse mAb


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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Mouse IgG1	UniProt ID: #P05783	Entrez-Gene Id: 3875
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Product Usage Information	Application Western Blotting Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:2000 1:250 - 1:1000 1:800 1:500 - 1:2000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #64374.	
Specificity / Sensitivity	Keratin 18 (DC10) Mouse mAb detects endogenous levels of total keratin 18 protein. The antibody does not cross-react with other keratins.	
Source / Purification	Monoclonal antibody (isotype: IgG1) is produced by immunizing mice with human PMC-42 breast carcinoma cells.	
Background	Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form filaments (1,2). Keratin isoforms demonstrate tissue- and differentiation-specific profiles that make them useful as research biomarkers (1). Research studies have shown that mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases (3-6).	
Background References	1. Moll, R. et al. (1982) <i>Cell</i> 31, 11-24. 2. Chang, L. and Goldman, R.D. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 601-13. 3. Ramaekers, F.C. and Bosman, F.T. (2004) <i>J Pathol</i> 204, 351-4. 4. Lane, E.B. and McLean, W.H. (2004) <i>J Pathol</i> 204, 355-66. 5. Zatloukal, K. et al. (2004) <i>J Pathol</i> 204, 367-76. 6. Owens, D.W. and Lane, E.B. (2004) <i>J Pathol</i> 204, 377-85.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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