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#5075

## Pan-Keratin (C11) Mouse mAb (PE Conjugate)



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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P48668, #P13645, #P04259, #P05787, #P13646, #P02538, #P05783, #P13647, #P19013	<b>Entrez-Gene Id:</b> 286887, 3858, 3854, 3856, 3860, 3853, 3875, 3852, 3851
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
<b>Specificity / Sensitivity</b>	Pan-Keratin (C11) Mouse mAb (PE Conjugate) detects endogenous levels of total keratin 4, 5, 6, 8, 10, 13 and 18. The antibody does not cross-react with other keratins.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing a BALB/c mouse with a cytoskeleton preparation from A-431 cells.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Pan-Keratin (C11) Mouse mAb #4545.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Moll, R. et al. (1982) <i>Cell</i> 31, 11-24.</li> <li>2. Chang, L. and Goldman, R.D. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 601-13.</li> <li>3. Ramaekers, F.C. and Bosman, F.T. (2004) <i>J Pathol</i> 204, 351-4.</li> <li>4. Lane, E.B. and McLean, W.H. (2004) <i>J Pathol</i> 204, 355-66.</li> <li>5. Zatloukal, K. et al. (2004) <i>J Pathol</i> 204, 367-76.</li> <li>6. Owens, D.W. and Lane, E.B. (2004) <i>J Pathol</i> 204, 377-85.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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