

Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 647 Conjugate)

✓ 100 µl
(50 tests)

New more concentrated formulation

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

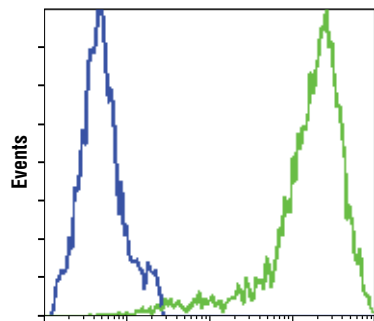
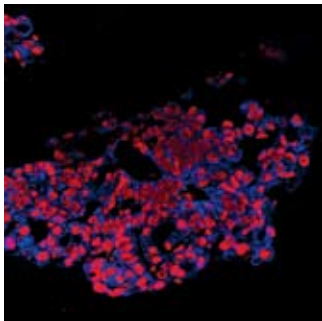
Applications	Species Cross-Reactivity*	Isotype
IF-IC, IF-P, F Endogenous	H, R, Mk	Mouse IgG1

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis of human cells. The unconjugated antibody #4545 reacts with keratins 4, 5, 6, 8, 10, 13 and 18 from human, rat and monkey. CST expects that Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 647 Conjugate) will also recognize the same keratins in these species.

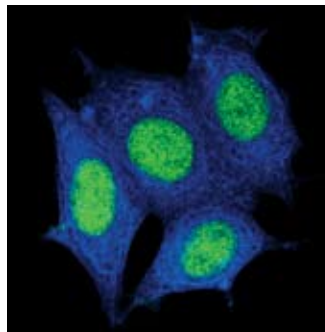
Background: Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratins assemble into filaments, forming heterodimers of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) (1,2). Keratin isoforms demonstrate tissue- and differentiation-specific profiles, which make them useful as biomarkers (1). Mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases (3-6).

Specificity/Sensitivity: Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 647 Conjugate) detects endogenous levels of total keratins 4, 5, 6, 8, 10, 13 and 18. The antibody does not cross-react with other keratins.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a cytoskeleton preparation from A431 cells. This antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.



Flow cytometric analysis of Jurkat (blue) and MCF-7 cells (green) using Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 647 Conjugate).



Confocal immunofluorescent analysis of MCF-7 cells using Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 647 Conjugate) (blue) and Histone H3 Antibody #9715 (green).

◀ Confocal immunofluorescent analysis of paraffin-embedded H3255 xenograft using Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 647 Conjugate) (blue) and Histone H3 Antibody #9715 (red).

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide, 2 mg/ml BSA. Store at 4°C. *Protect from light. Do not freeze.*

*Species cross-reactivity other than human is determined by Western blot using the unconjugated antibody.

Recommended Antibody Dilutions:

Immunofluorescence (IF-P)	1:100
Immunofluorescence (IF-IC)	1:100
Flow Cytometry	1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Moll, R. et al. (1982) *Cell* 31, 11–24.
- (2) Chang, L. and Goldman, R.D. (2004) *Nat. Rev. Mol. Cell Biol.* 5, 601–613.
- (3) Ramaekers, F.C. and Bosman, F.T. (2004) *J. Pathol.* 204, 351–354.
- (4) Lane, E.B. and McLean, W.H. (2004) *J. Pathol.* 204, 355–366.
- (5) Zatloukal, K. et al. (2004) *J. Pathol.* 204, 367–376.
- (6) Owens, D.W. and Lane, E.B. (2004) *J. Pathol.* 204, 377–385.

The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc., for research use only, except for use in combination with DNA microarrays. The Alexa Fluor® dyes (except for Alexa Fluor® 430 dye) are covered by pending and issued patents.

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