

# Pan-Keratin (C11) Mouse mAb

✓ 100 µl  
(10 western blots)

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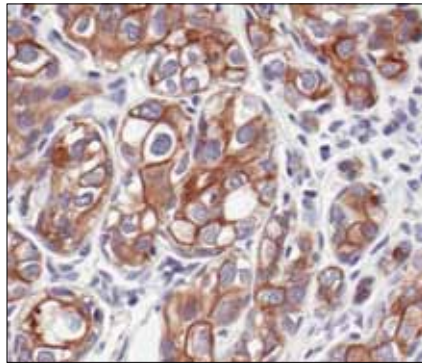
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IHC-P, IF-IC, IF-P, F Endogenous	H, R, Mk	46, 62 kDa	Mouse IgG1**

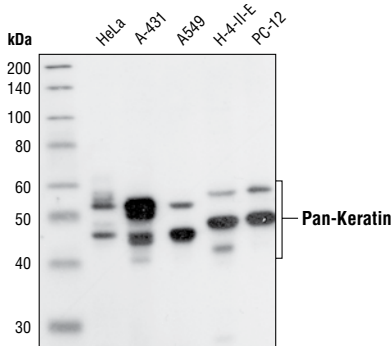
**Background:** Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratins assemble into filaments, forming heterodimers of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) (1,2). 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 detects endogenous levels of total keratin 4, 5, 6, 8, 10, 13 and 18. The antibody does not cross-react with other keratins.

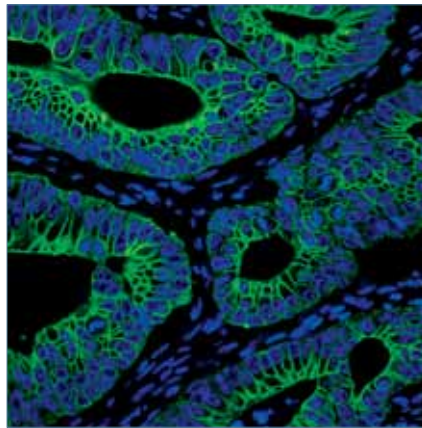
**Source/Purification:** Monoclonal antibody (isotype: IgG1) is produced by immunizing a BALB/c mouse with a cytoskeleton preparation from A431 cells.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma using Pan-Keratin (C11) Mouse mAb.



Western blot analysis of extracts from various cell lines using Pan-Keratin (C11) Mouse mAb.



Confocal immunofluorescent image of paraffin-embedded human colon carcinoma labeled with Pan-Keratin (C11) Mouse mAb (green). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-mouse secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:500†
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Mouse) #8125
†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.	
Immunofluorescence (IF-IC)	1:400
Immunofluorescence (IF-P)	1:50
Flow Cytometry	1:50

For application specific protocols please see the web page for this product at [www.cellsignaling.com](http://www.cellsignaling.com).

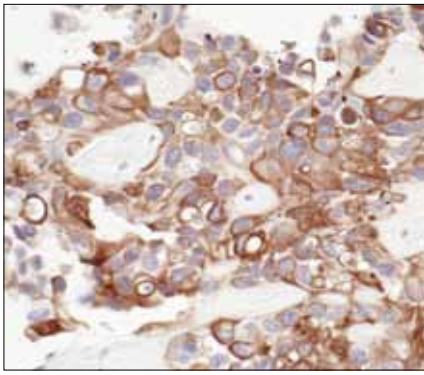
Please visit [www.cellsignaling.com](http://www.cellsignaling.com) for a complete listing of recommended companion products.

**Background References:**

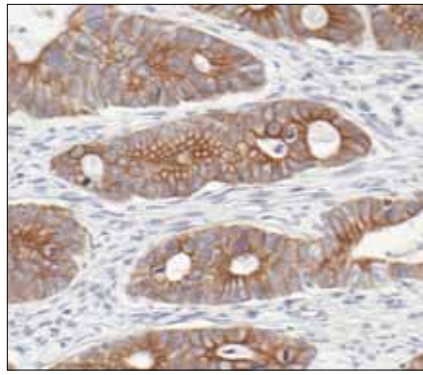
- (1) Moll, R. et al. (1982) *Cell* 31, 11–24.
- (2) Chang, L. and Goldman, R.D. (2004) *Nat. Rev. Mol. Cell Biol.* 5, 601–613.
- (3) Ramaekers, F.C. and Bosman, F.T. (2004) *J. Pathol.* 204, 351–354.
- (4) Lane, E.B. and McLean, W.H. (2004) *J. Pathol.* 204, 355–366.
- (5) Zatloukal, K. et al. (2004)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

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

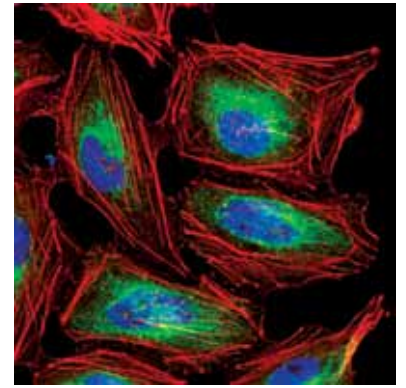
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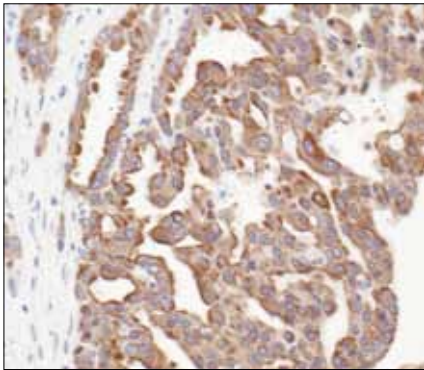
Immunohistochemical analysis of paraffin-embedded human transitional epithelial carcinoma (bladder) using Pan-Keratin (C11) Mouse mAb.



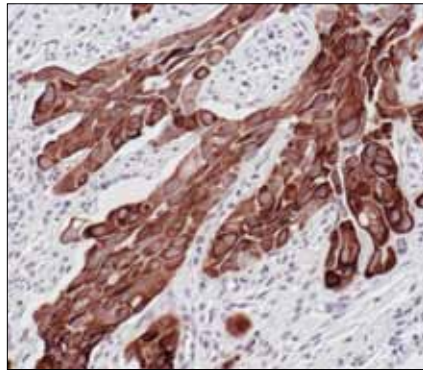
Immunohistochemical analysis of paraffin-embedded human colon carcinoma using Pan-Keratin (C11) Mouse mAb.



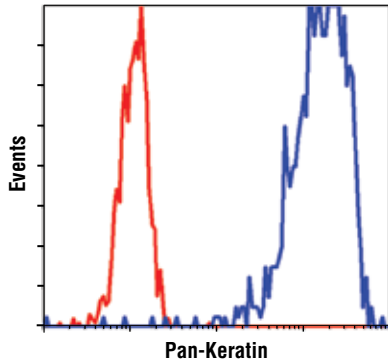
Confocal immunofluorescent analysis of HeLa cells using Pan-Keratin (C11) Mouse mAb (green). Actin filaments have been labeled with DY-554 phalloidin (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using Pan-Keratin (C11) Mouse mAb.



Immunohistochemical analysis of paraffin-embedded H358 xenograft using Pan-Keratin (C11) Mouse mAb.



Flow cytometric analysis of MCF7 cells using Pan-Keratin (C11) Mouse mAb (blue) compared to a nonspecific negative control antibody (red).