**Pan-Keratin (C11) Mouse mAb**

**Applications**
- Western
- Immunoprecipitation
- Immunohistochemistry
- Chromatin Immunoprecipitation
- Immunofluorescence
- Flow cytometry

**Species Cross-Reactivity**
- H, M, R, Mk

**Molecular Wt.**
- 46-58 kDa

**Isotype**
- 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.

**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.

**Recommended Antibody Dilutions:**
- Western Blotting 1:1000
- Immunohistochemistry (Paraffin) 1:500†
- Unmasking buffer: Citrate
- 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
- IF Protocol: Methanol Fixation Required
- Immunoﬂuorescence (IF-P): 1:50
- Flow Cytometry: 1:50

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

**Background References:**

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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.

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.

Confocal immunofluorescent analysis of HeLa cells using Pan-Keratin (C11) Mouse mAb (green). Blue pseudocolor= DRAQ5® #4084 (fluorescent DNA dye).

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