Pan-Keratin (C11) Mouse mAb (Alexa Fluor® 488 Conjugate)

**Description:** This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 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® 488 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® 488 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. The antibody was conjugated to Alexa Fluor® 488 under optimal conditions with an F/P ratio of 2-6.

**Background References:**

**Applications Key:**
- **W**—Western
- **IP**—Immunoprecipitation
- **HC**—Immunohistochemistry
- **ChIP**—Chromatin Immunoprecipitation
- **IF**—Immunofluorescence
- **F**—Flow cytometry
- **P**—ELISA

**Species Cross-Reactivity Key:**
- **H**—human
- **M**—mouse
- **R**—rat
- **Hr**—horse
- **C**—chicken
- **Dm**—D. melanogaster
- **X**—Xenopus
- **Z**—zebrafish
- **B**—bovine
- **Dg**—dog
- **Pg**—pig
- **Sc**—S. cerevisiae
- **Ce**—C. elegans
- **All**—all species expected

**Recommended Antibody Dilutions:**
- **IF Protocol:**
  - Methanol Fixation Required
  - Flow Cytometry
  - 1:100

**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.

**Flow Cytometry:**

- **Recommended Antibody Dilutions:**
  - 1:100

**Immunofluorescence:**

- **Recommended Antibody Dilutions:**
  - 1:100

**For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, including use with HCS or other automated imaging applications but excluding use in combination with DNA microarrays. The buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

Alexa Fluor is a registered trademark of Life Technologies Corporation.

DR85 is a registered trademark of Biostatus Limited.

© 2015 Cell Signaling Technology Inc.

For Research Use Only. Not For Use In Diagnostic Procedures.