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

Product Usage Information

<table>
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<tr>
<th>Application</th>
<th>Dilution</th>
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<tbody>
<tr>
<td>Immunofluorescence (Immunocytochemistry)</td>
<td>1:100</td>
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<tr>
<td>Flow Cytometry</td>
<td>1:50</td>
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</tbody>
</table>

Storage

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 antibody. Protect from light. Do not freeze.

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.

Species Reactivity:

Human, Mouse, Rat, Monkey

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.

Product Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in 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. 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).

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