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

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:
- IHC-P, IF-F, IF-IC, FC-FP

Reactivity:
- H M R Mk

Sensitivity:
- Endogenous

Source/Isotype:
- Mouse IgG1

UniProt ID:
- #P48668, #P13645,
- #P04259, #P05787,
- #P13646, #P02538,
- #P05783, #P13647,
- #P19013

Entrez-Gene Id:
- 286887, 3858, 3854,
- 3856, 3860, 3853,
- 3875, 3852, 3851

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).

Background References

Species Reactivity
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key
- IHC-P: Immunohistochemistry (Paraffin)
- IF-F: Immunofluorescence (Frozen)
- IF-IC: Immunofluorescence (Immunocytochemistry)
- FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key
- GP: Guinea Pig Rab: rabbit All: all species expected

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