

#4279 Store at -20°C

Pan-Keratin (C11) Mouse mAb (Biotinylated)



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	46-58	Mouse IgG1	#P48668, #P13645, #P04259, #P05787, #P13646, #P02538, #P05783, #P13647, #P19013	286887, 3858, 3854, 3856, 3860, 3853, 3875, 3852, 3851

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	Pan-Keratin (C11) Mouse mAb (Biotinylated) 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 is produced by immunizing animals with a cytoskeleton preparation from A-431 cells.	
Product Description	This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions. The unconjugated Pan-Keratin (C11) Mouse mAb #4545 reacts with human, rat and monkey pan-keratin. CST expects that Pan-Keratin (C11) Mouse mAb (Biotinylated) will also recognize pan-keratin in these species.	

MW (kDa) 46-58

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

1. Moll, R. et al. (1982) *Cell* 31, 11-24.
2. Chang, L. and Goldman, R.D. (2004) *Nat Rev Mol Cell Biol* 5, 601-13.
3. Ramaekers, F.C. and Bosman, F.T. (2004) *J Pathol* 204, 351-4.
4. Lane, E.B. and McLean, W.H. (2004) *J Pathol* 204, 355-66.
5. Zatloukal, K. et al. (2004) *J Pathol* 204, 367-76.
6. Owens, D.W. and Lane, E.B. (2004) *J Pathol* 204, 377-85.

Species Reactivity

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

Western Blot Buffer

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

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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