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



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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 Usage Information		Application Immunohistochemistry (F Immunofluorescence (Frc Immunofluorescence (Im Flow Cytometry (Fixed/Pe	ozen) munocytochemistry)		Dilution 1:50 - 1:200 1:200 - 1:400 1:100 - 1:400 1:100
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/Sensit	tivity	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 / Purificat	tion	Monoclonal antibody is produced by immunizing animals with a cytoskeleton preparation from A-431 cells. The antibody was conjugated to Alexa Fluor [®] 488 under optimal conditions with an F/P ratio of 2-6.			
Description			ntibody conjugate is e	xpected to exhibit the s	488 fluorescent dye under same species cross-reactivity as
Background		Keratin heterodimers con keratin (or type II keratin,	nposed of an acidic kei keratins K1-K8 and K7	ratin (or type I keratin, l '1-K80) assemble to for	nly expressed in epithelial cells. keratins K9-K28) and a basic m filaments. Keratin isoforms n useful as research and clinical
		nails, and other epithelial	tissues (3). While expr iining of keratins is wic	ession of keratins can k dely used to help in the	ders affecting the skin, hair, be variable, identification and classification
		keratinocytes of stratified coincides with the definiti is expressed in basal cells squamous cell carcinoma gallbladder, and pancreas 20 (K20) is expressed in gain in colorectal carcinomas a	preast, lung, ovary, and epithelia, hair follicles on of major epithelial of stratified epithelia, s. Keratin 19 (K19) is ex as well as in adenoca astrointestinal epitheli and some urothelial ca uding the skin, prostat s, and some lung carci the lung, breast, and	gastrointestinal tract. , and sebaceous glands lineages during skin de and in basal-like subty kpressed in glandular e rcinomas of the breast um, urothelium, and M rcinomas. Keratin 5/6 (l e, and breast, as well a nomas. Keratin 7 (K7) is female reproductive tra	Keratin 17 is expressed in basal s. Onset of keratin 17 expression velopment (4). Keratin 14 (K14) oes of breast cancer and pithelia, including the liver, , thyroid, and bile duct. Keratin erkel cells in the skin, as well as (5/6) is expressed in basal cells s in basal-like breast cancers, s expressed in glandular
		Keratins, particularly K8, ł (CTCs) (5).	<18, and K19, serve as	biomarkers for identifi	cation of circulating tumor cells
					n, ubiquitylation, sumoylation, tions of keratins in normal and

	disease states (6). Understanding the molecular mechanisms underlying these PTMs may provide insights into cancer pathogenesis.	
Background References	1. Chang, L. and Goldman, R.D. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 601-13. 2. Schweizer, J. et al. (2006) <i>J Cell Biol</i> 174, 169-74. 3. Sarma, A. (2022) <i>Int J Biol Macromol</i> 219, 395-413. 4. McGowan, K.M. and Coulombe, P.A. (1998) <i>J Cell Biol</i> 143, 469-86. 5. Werner, S. et al. (2020) <i>Mol Aspects Med</i> 72, 100817. 6. Dmello, C. et al. (2019) <i>J Biosci</i> 44, 33.	
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	H: Human M: Mouse R: Rat Mk: Monkey	
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