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Pan-Keratin (C11) Mouse mAb (Alexa Fluor<sup>®</sup> 555 Conjugate)



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For Research	Use Only.	Not for	Use in l	Diagnostic	Procedures.
i oi itescuion	0.50 011191	1101 101	0.50 mm	Diagnostio	110000441051

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	ļ	Application		Dil	ution		
Information	I	mmunohistochemistr	y (Paraffin)	1:5	1:50 - 1:200		
	I	mmunofluorescence	(Frozen)	1:1	600		
	I	mmunofluorescence	(Immunocytochemistry)	1:5	0		
	F	-low Cytometry (Fixe	d/Permeabilized)	1:5	0		
Storage		upplied in PBS (pH 7 ntibody. Protect from		ide and 2 mg/ml BSA. Store at 4°C.	Do not aliquot the		
Specificity / Sensit			use mAb (Alexa Fluor® 555 Co The antibody does not cross-r	onjugate) detects endogenous level eact with other keratins.	s of total keratins 4,		
Source / Purification	T	he antibody was conj	s produced by immunizing anir ugated to Alexa Fluor® ditions with an F/P ratio of 2-6	nals with a cytoskeleton preparation	n from A-431 cells.		
Product Description	CO	onditions. This antibo		ed to Alexa Fluor <sup>®</sup> 555 fluorescent hibit the same species cross-reacti			
Background	K (c	eratin heterodimers o or type II keratin, kera	composed of an acidic keratin tins K1-K8 and K71-K80) asse	eins that are mainly expressed in e (or type I keratin, keratins K9-K28) emble to form filaments. Keratin iso them useful as research and clinica	and a basic keratin forms demonstrate		
	aı st	nd other epithelial tiss	sues (3). While expression of videly used to help in the ident	a variety of disorders affecting the ceratins can be variable, immunohis ification and classification of epithe	stochemical		
	at ke cc ex ce pa ca ca ca in	denocarcinomas of the eratinocytes of stratifi- pincides with the defin xpressed in basal cel ell carcinomas. Kerati ancreas, as well as in xpressed in gastrointo arcinomas and some pithelia, including the arcinomas, and some	he breast, lung, ovary, and gas ed epithelia, hair follicles, and nition of major epithelial lineag Is of stratified epithelia, and in in 19 (K19) is expressed in gla a adenocarcinomas of the brea estinal epithelium, urothelium, urothelial carcinomas. Keratin skin, prostate, and breast, as e lung carcinomas. Keratin 7 (k	epithelia of normal tissue, as well a trointestinal tract. Keratin 17 is exp sebaceous glands. Onset of keratii es during skin development (4). Ke basal-like subtypes of breast cance indular epithelia, including the liver, ist, thyroid, and bile duct. Keratin 20 and Merkel cells in the skin, as wel 5/6 (K5/6) is expressed in basal ce well as in basal-like breast cancers (7) is expressed in glandular epithe well as in adenocarcinomas of the	ressed in basal n 17 expression ratin 14 (K14) is er and squamous gallbladder, and 0 (K20) is I as in colorectal ells of stratified s, squamous cell lia, such as those		
		eratins, particularly K CTCs) (5).	8, K18, and K19, serve as bio	markers for identification of circulat	ing tumor cells		

	Post-translational modifications, including phosphorylation, acetylation, ubiquitylation, sumoylation, glycosylation, and transamidation, have been shown to affect the functions of keratins in normal and disease states (6). Understanding the molecular mechanisms underlying these PTMs may provide insights into cancer pathogenesis.		
Background References	<ol> <li>Chang, L. and Goldman, R.D. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 601-13.</li> <li>Schweizer, J. et al. (2006) <i>J Cell Biol</i> 174, 169-74.</li> <li>Sarma, A. (2022) <i>Int J Biol Macromol</i> 219, 395-413.</li> <li>McGowan, K.M. and Coulombe, P.A. (1998) <i>J Cell Biol</i> 143, 469-86.</li> <li>Werner, S. et al. (2020) <i>Mol Aspects Med</i> 72, 100817.</li> <li>Dmello, C. et al. (2019) <i>J Biosci</i> 44, 33.</li> </ol>		
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 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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