Keratin 17/19 (D32D9) XP[®] Rabbit mAb





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Applications: W, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 48/41	Source/Isotype: Rabbit IgG	UniProt ID: #Q04695, #P08727	Entrez-Gene Id: 3872, 3880
Product Usage Information		Application Western Blotting Immunohistochemist	ry (Paraffin)		Dilution 1:1000 1:300	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			l and less than	
		For a carrier free (BSA and azide free) version of this product see product #88848.				
Specificity/Sen	sitivity	Keratin 17/19 (D32D9) XP $^{ extsf{@}}$ Rabbit mAb detects endogenous levels of keratin 17 and keratin 19 proteins.				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids near the amino terminus of human keratin 17 and human keratin 19.				
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 K9-K28) and a basic keratin (or type II keratin, keratins K1-K8 and K71-K80) assemble to form filaments. Keratin isoforms demonstrate tissue- and differentiation-specific profiles that make them useful as research and clinical biomarkers (1,2).				
		Dysregulation/mutations in keratin genes can lead to a variety of disorders affecting the skin, hair, nails, and other epithelial tissues (3). While expression of keratins can be variable, immunohistochemical staining of keratins is widely used to help in the identification and classification of epithelial tumors, and may also provide prognostic information.				
		adenocarcinomas of t keratinocytes of strati coincides with the def is expressed in basal of squamous cell carcino gallbladder, and panci 20 (K20) is expressed i in colorectal carcinom of stratified epithelia, squamous cell carcinom	he breast, lung, ova fied epithelia, hair f inition of major epi cells of stratified epi mas. Keratin 19 (K1 reas, as well as in ac in gastrointestinal e as and some uroth including the skin, j mas, and some lun se in the lung, breas	ary, and gastrointestina follicles, and sebaceous thelial lineages during thelia, and in basal-likk 9) is expressed in glan denocarcinomas of the pithelium, urothelium elial carcinomas. Kerat prostate, and breast, a g carcinomas. Keratin st, and female reprodu	hormal tissue, as well a al tract. Keratin 17 is ex s glands. Onset of kera skin development (4). e subtypes of breast ca dular epithelia, includi breast, thyroid, and bi , and Merkel cells in th in 5/6 (K5/6) is express s well as in basal-like b 7 (K7) is expressed in g ctive tract, as well as in	pressed in basal tin 17 expression Keratin 14 (K14) ncer and ng the liver, ile duct. Keratin e skin, as well as ed in basal cells reast cancers, Jandular
		Keratins, particularly K8, K18, and K19, serve as biomarkers for identification of circulating tumor cells (CTCs) (5).				
		glycosylation, and trai	nsamidation, have b derstanding the mo	been shown to affect th	etylation, ubiquitylatior ne functions of kerating nderlying these PTMs r	s in normal and
		remodeling (7). Kerati produce an increase in localization. As 14-3-3 results in sequestratic	nocytes deficient in n translation, cell siz σ typically associate on of 14-3-3σ with k	keratin 17 exhibit abn ze, or growth; these ce es with keratin 17, thes eratin 17 in the cytosol	ocesses that require raj ormal Akt/mTOR signa lls also exhibit abnorm e results imply that Akt l, which is required for e a docking site for 14-	ling and fail to al 14-3-3σ t/mTOR signaling translation and

Background References	 Chang, L. and Goldman, R.D. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 601-13. Schweizer, J. et al. (2006) <i>J Cell Biol</i> 174, 169-74. Sarma, A. (2022) <i>Int J Biol Macromol</i> 219, 395-413. McGowan, K.M. and Coulombe, P.A. (1998) <i>J Cell Biol</i> 143, 469-86. Werner, S. et al. (2020) <i>Mol Aspects Med</i> 72, 100817. Dmello, C. et al. (2019) <i>J Biosci</i> 44, 33. Paladini, R.D. et al. (1996) <i>J. Cell Biol</i>. 132, 381-397. Kim, S. et al. (2006) <i>Nature</i> 441, 362-365. 	
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey	
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