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 Phospho-Keratin 20 (Ser13) (D9M60) Rabbit mAb

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Applications: Rea WB, IF-IC	Activity: Sensitivity: H Endogenous	<b>MW (kDa):</b> 48	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P35900	Entrez-Gene Id: 54474	
Product Usage Information	Application Western Blotting Immunofluorescence (	(Immunocytochen	nistry)		<b>Dilution</b> 1:1000 1:400	
Storage	Supplied in 10 mM sod 0.02% sodium azide. S			erol and less than		
Specificity / Sensitivity		Phospho-Keratin 20 (Ser13) (D9M6O) Rabbit mAb recognizes endogenous levels of keratin 20 protein only when phosphorylated at Ser13.				
Source / Purification	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser13 of human keratin 20 protein.				
Background	Keratin heterodimers c (or type II keratin, kerati and differentiation-spec have shown that mutati diseases, and inflamma Keratin 20 is primarily e Research studies have and gastric cancer (8).	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). Keratin 20 is primarily expressed in gastric and intestinal epithelium, urothelium, and Merkel cells (7). Research studies have shown that keratin 20 is an important marker of colon, liver, pancreatic, Merkel cell, and gastric cancer (8). Serine 13 of keratin 20 is phosphorylated in response to stress in intestinal epithelia, likely through the p38 MAPK pathway (9, 10).				
Background Reference	2. Chang, L. and Goldn	nan, R.D. (2004) d Bosman, F.T. (2 ean, W.H. (2004) 004) J Pathol 204 ne, E.B. (2004) J Am J Pathol 140 Dncogene 30, 12 ) J Biol Chem 28:	4, 367-76. <i>Pathol</i> 204, 377-85. , 427-47. 7-38. 1, 16453-61.			
Species Reactivity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g., w	estern 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	WB: Western Blotting I	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytoche				
Cross-Reactivity Key	X: Xenopus Z: zebrafish	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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Phospho-Keratin 20 (Ser13) (D9M6O) Rabbit mAb (#39359) Datasheet Without Images Cell Signaling Techn...

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