e at -20C	GPNMB (E4D7P) XP [®] Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
13		Support:	877-678-TECH (8324)		
#38313		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danver	s Massachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95, 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q14956	Entrez-Gene Id: 10457		
Product Usage Information	- Wi Im	oplication estern Blotting munoprecipitation munohistochemistry	r (Paraffin)		1	Dilution 1:1000 1:50 1:500		
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.						
Specificity / Sensitivity		GPNMB (E4D7P) XP [®] Rabbit mAb recognizes endogenous levels of total GPNMB protein. Based upon sequence alignment, this antibody is not predicted to cross-react with PMEL.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human GPNMB protein.						
Background	ma me diffu enc deg Wh mu phe con (9,1	ny types of cancer. T diating transport of la erentiation and funct lothelial cells (3), eni gradation of cellular of ile typical GPNMB e scle (3,6), research s enotype in numerous npartments in norma L0). Differential locali	The GPNMB glyca ate melanosomes ion (2), stimulatin hancing autophag debris (4,5). xpression is seer studies show elev cancers (reviewe al cells (1,8), but in ization and expre	NMB) is a type I transm poprotein is involved in m to keratinocytes (1), re g dendritic cell maturati gosome fusion to lysoso n in tissues including ski vated GPNMB expressio ed in 7). GPNMB is typic nvestigators found it prin ssion, and the role of Gl herapeutic target (11).	any physiological pro gulating osteoblast ar on, promoting adhesic mes in tissue repair, a n, heart, kidney, lung, on often contributes to cally localized to intrac narily on the cell surfa	cesses, including nd osteoclast on of dendritic cells to and regulating liver, and skeletal the metastatic cellular ace of tumor cells		
	Re: GP	search studies identi	fy the sheddase the surface of bre	l by matrix metalloprotei ADAM10 as one peptida east cancer cells. Shedo I migration (13).	se responsible for cle	eavage of the		
Background Referen	2. S 3. S 4. L 5. F 6. E 7. N 8. F 9. T 10. F 11. K 12. F	Comihari, M. et al. (20 Sheng, M.H. et al. (20 Shikano, S. et al. (20 i, B. et al. (2010) <i>FA</i> Patel-Chamberlin, M. Bandari, P.S. et al. (2013 Ripoll, V.M. et al. (2013 Ripoll, V.M. et al. (2006) Rose, A.A. et al. (2010 Cose, A.A. et al. (2010) Rose, A.A. et al. (2010) Rose, A.A. et al. (2010)	012) PLoS One 7 01) J Biol Chem 2 SEB J 24, 4767-{ et al. (2011) Kidi 003) Regul Pept) Onco Targets 7 07) J Immunol 17 0 Clin Cancer Res 0) Clin Cancer R t, L.T. (2012) Exp 07) FEBS Lett 58:	, e35280. 276, 8125-34. 31. hey Int 79, 1138-48. 111, 169-78. her 6, 839-52. 8, 6557-66. 12, 1373-82. es 16, 2147-56. ert Opin Biol Ther 12, 2 1, 5743-50.	59-63.			

Species Reactivity

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

Western Blot Buffer

1/1/24, 10:17 AM	GPNMB (E4D7P) XP® Rabbit mAb (#38313) Datasheet Without Images Cell Signaling Technology 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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)				
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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