GPNMB (E4D7P) XP[®] Rabbit mAb





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

Applications: W, 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		Application Western Blotting Immunoprecipitation Immunohistochemistr	y (Paraffin)		Dilution 1:1000 1:50 1:250 - 1:100	00	
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.				ol and less than	
		For a carrier free (BSA and azide free) version of this product see product #79846.					
Specificity/Sensiti	vity	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.				ein. Based upon	
Source / Purificati	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human GPNMB protein.					
Background		many types of cancer. T mediating transport of differentiation and fun- cells to endothelial cell- regulating degradation While typical GPNMB e muscle (3,6), research s phenotype in numerou compartments in norm cells (9,10). Differential many cancer types mal The GPNMB ectodomai (12). Research studies i	The GPNMB glycop late melanosomes ction (2), stimulatir s (3), enhancing au of cellular debris (xpression is seen in studies show elevat s cancers (reviewe al cells (1,8), but in localization and ex ke this protein a via in can be cleaved b dentify the shedda	MB) is a type I transmer rotein is involved in mar to keratinocytes (1), reg g dendritic cell maturat tophagosome fusion to 4,5). In tissues including skin, red GPNMB expression of d in 7). GPNMB is typical vestigators found it prin pression, and the role o able therapeutic target (y matrix metalloprotein se ADAM10 as one pept ast cancer cells. Shedded	ny physiological pro- julating osteoblast a ion, promoting adho lysosomes in tissue heart, kidney, lung, often contributes to ly localized to intrac narily on the cell sun f GPNMB as a tumo 11). ases and shed from idase responsible fo	cesses, including and osteoclast esion of dendritic repair, and liver, and skeletal the metastatic cellular rface of tumor r promoter in the cell surface or cleavage of the	
Background Refer	rences	angiogenesis by induci 1. Tomihari, M. et al. (20 2. Sheng, M.H. et al. (20 3. Shikano, S. et al. (200 4. Li, B. et al. (2010) FAS 5. Patel-Chamberlin, M 6. Bandari, P.S. et al. (20 7. Maric, G. et al. (2013) 8. Ripoll, V.M. et al. (2006) 10. Rose, A.A. et al. (2007) 11. Keir, C.H. and Vahda 12. Furochi, H. et al. (2013) 13. Rose, A.A. et al. (2013) 14. Rose, A.A. et al. (2013) 15. Rose, A.A. et al. (2013) 16. Rose, A.A. et al. (2013) 17. Rose, A.A. et al. (2013) 18. Rose, A.A. et al. (2013) 19. Rose, A.A. et al. (2013) 1	2009) Exp Dermatol (12) PLoS One 7, e3 (21) J Biol Chem 276 (22) Chem 276 (24) 4767-81. (2011) Kidne (2003) Regul Pept 11 (2003) Regul Pept 11 (2003) Onco Targets The (2011) J Immunol 178, (2011) Clin Cancer Res (2012) FEBS Lett 581,	18, 586-95. 35280. , 8125-34. <i>r</i> 6, 839-52. 6557-66. 1373-82. 16, 2147-56. <i>t Opin Biol Ther</i> 12, 259- 5743-50.	-63.		

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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: Human
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