2861

Prostatic Acid Phosphatase (D3Y5P) Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P15309	Entrez-Gene Id: 55		
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)		Dilution 1:1000 1:600				
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.						
		For a carrier free (BSA and azide free) version of this product see product #46134.						
Specificity/Sen	SensitivityProstatic Acid Phosphatase (D3Y5P) Rabbit mAb recognizes endogenous levels of total ACPP protein. The antibody is predicted to detect both the cellular and secreted isoforms of ACPP.				al ACPP protein.			
Source / Purific	urce / Purification Monoclonal antibody is produced by immunizing animals with recombinant human full-acid phosphatase.		full-length prostatic					
Background		Prostatic Acid Phosphatase (ACPP or PAP) is a member of the histidine acid phosphatase family. It is a non-specific phosphatase that is capable of dephosphorylating tyrosine residues as well as phospholipids under mildly acidic conditions. ACPP has ecto-5'-nucleotidase activity in pain-sensing neurons where it converts AMP to adenosine, suppressing the pain response (1,2). ACPP occurs as tw isoforms that are both heavily glycosylated. The secreted phosphatase (sPAP) is found predominantly in the prostate and seminal plasma, while the cellular isoform (cPAP) is broadly expressed at very low levels and is associated with the plasma and lysosomal membranes (3-5). Cellular PAP has been show to dephosphorylate ErbB2 at various tyrosine residues effectively terminating signaling (6). Furthermore, the physical interaction between cPAP and ErbB2 appears to regulate androgen sensitivity in prostate cancer cells. Loss of cPAP in androgen-sensitive prostate cancer cells results in the development of a castration-resistant phenotype suggesting that ACPP plays a significant role in prostate cancer cell growth (7). ACPP is expressed in metastatic cells arising from prostate cancer - especially in prostate cancer re-emergence in bone (8).				tase family. It is a well as in pain-sensing .CPP occurs as two nd predominantly essed at very low .P has been shown ing (6). androgen er cells results in ignificant role in ostate cancer - a diagnostic		
Background Re	eferences	 Street, S.E. et al. (2013) <i>J Neurosci</i> 33, 11314-22. Street, S.E. et al. (2011) <i>Mol Pain</i> 7, 80. Tanaka, M. et al. (2004) <i>FEBS Lett</i> 571, 197-204. Quintero, I.B. et al. (2007) <i>Cancer Res</i> 67, 6549-54. Graddis, T.J. et al. (2011) <i>Int J Clin Exp Pathol</i> 4, 295-306. Chuang, T.D. et al. (2010) <i>J Biol Chem</i> 285, 23598-606. Muniyan, S. et al. (2013) <i>Int J Mol Sci</i> 14, 10438-64. Kirschenbaum, A. et al. (2011) <i>Ann N Y Acad Sci</i> 1237, 64-70. 						
					d angligation (a. s			
Species Reactiv	vity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting I	HC-P: Immunohisto	chemistry (Paraffin)				
Cross-Reactivit	ty Key	H: Human						
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