ក្ខុ ស្តុ MAGE-A3 (E9S4X) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #P43357	Entrez-Gene Id: 4102		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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/Sen	sitivity	MAGE-A3 (E9S4X) Rabbit mAb recognizes endogenous levels of total MAGE-A3 protein. This antibody cross-reacts with MAGE-A2 and MAGE-A12 proteins.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MAGE-A3 protein.						
Background		Cancer/testis antigens (CTAs) are a family of more than 100 proteins whose normal expression is largely restricted to immune privileged germ cells of the testis, ovary, and trophoblast cells of the placenta. Although most normal somatic tissues are void of CTA expression, due to epigenetic silencing of gene expression, their expression is upregulated in a wide variety of human solid and liquid tumors (1,2). As such, CTAs have garnered much attention as attractive targets for a variety of immunotherapy- based approaches to selectively attack tumors (3).						
		Melanoma antigen-A3 (MAGE-A3) is a cancer testis antigen and belongs to the type I MAGE family of proteins. The expression of MAGE-A3 is normally restricted to the human testis but is aberrantly upregulated in a number of human cancers, such as lung cancer, colorectal cancer, and multiple myeloma (4-6). Research studies have recently demonstrated that MAGE-A3 drives tumorigenesis as part of the MAGE-A3-TRIM28 ubiquitin ligase complex that promotes proteasomal degradation of the tumor suppressor kinase AMPK (7). Due to its upregulated and selective expression in human tumors and high degree of immunogenicity, MAGE-A3 has received significant attention as a novel immunotherapy target through the use of vaccines and adoptive cell therapy (8,9).						
Background Re	eferences	 Caballero, O.L. and Chen, Y.T. (2009) <i>Cancer Sci</i> 100, 2014-21. De Smet, C. et al. (1999) <i>Mol Cell Biol</i> 19, 7327-35. Gjerstorff, M.F. et al. (2015) <i>Oncotarget</i> 6, 15772-87. Jang, S.J. et al. (2001) <i>Cancer Res</i> 61, 7959-63. Shantha Kumara, H.M. et al. (2012) <i>Cancer Immun</i> 12, 16. Atanackovic, D. et al. (2007) <i>Blood</i> 109, 1103-12. Pineda, C.T. et al. (2015) <i>Cell</i> 160, 715-28. Straetemans, T. et al. (2012) <i>Clin Dev Immunol</i> 2012, 586314. Esfandiary, A. and Ghafouri-Fard, S. (2015) <i>Immunotherapy</i> 7, 683-704. 						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	-	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 IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc.						

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