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្តុ TRBC1/TCRβ constant region 1 Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30-40	Source/Isotype: Rabbit	UniProt ID: #P01850	Entrez-Gene Id: 28639	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sen	sitivity	ivity TRBC1/TCRβ constant region 1 Antibody recognizes endogenous levels of total TRBC1/TCRβ constant region 1 protein. This antibody does not cross-react with TRBC2/TCRβ constant region 2 protein.					
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human TRBC1/TCRβ constant region 1 protein. Antibodies are purified by peptide affinity chromatography.					
Background		The $\alpha\beta$ T Cell Receptor (TCR) is a heterodimer composed of an alpha chain and a beta chain expressed on the surface of T cells (1,2). It detects peptide antigen presented by major histocompatibility complex (MHC) molecules (1,2). Detection of cognate antigen leads to activation of the TCR signaling pathway through the CD3 signaling chains that associate with the TCR (1). The TCR chains are made up of a constant region and variable regions that get rearranged during T cell development in the thymus (3). There are two TCR β constant genes, <i>TRBC1</i> and <i>TRBC2</i> (3). A population of normal T cells is polyclonal and contains a mix of TRBC1- and TRBC2-expressing T cells, while T cell malignancies are monoclonal and all express the same TCR which either contains TRBC1 or TRBC2 (4). Therefore, it is possible that T cell malignancies could be identified and targeted with reagents or therapies that can distinguish between TRBC1 and TRBC2 (4).					
Background Re	ferences	1. Kronenberg, M. et a 2. Allison, J.P. et al. (19 3. Saito, H. et al. <i>Natu</i> 4. Maciocia, P.M. et al.	84) <i>Immunol Rev</i> 8 re 309, 757-62.	1, 145-60.			
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	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 Ke	ey	W: Western Blotting					
Cross-Reactivit	у Кеу	H: Human					
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