Store at -20C

#9899

## β2-microglobulin Antibody



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Applications: W	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 12	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P61769	Entrez-Gene Id: 567	
Product Usage Information		<b>Application</b> 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. Do not aliquot the antibody.					
Specificity/Sens	ecificity/Sensitivity β2-microglobulin Antibody recognizes endogenous levels of total β2-microglob		β2-microglobulin (	B2M) protein.			
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro52 of human β2-microglobulin (B2M) protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		β2-microglobulin (B2M) is a principal component of the Major Histocompatibility Complex (MHC) class I molecule, a ternary membrane protein complex that displays fragments derived from proteolyzed cytosolic proteins on the surface of cells for recognition by the surveillance immune system (1,2). As an integral component of the MHC class I complex, β2-microglobulin plays a critically important role in immune system function (3). It has important relevance to cancer biology research; for example, research studies have shown that nearly one-third of diffuse large B cell lymphomas contain mutations that inactivate β2-microglobulin gene function, thereby allowing tumor cells to escape immune detection (4). In addition, β2-microglobulin has been identified as an amyloid preprotein with collagen- binding affinity (5); its accumulation in osteoarthritic lesions of long-term dialysis patients is reportedly a contributing factor to the condition known as amyloid osteoarthropathy (6).					
Background Re	ferences	1. Krangel, M.S. et al. (1979) <i>Cell</i> 18, 979-91. 2. Collins, E.J. et al. (1995) <i>Proc Natl Acad Sci USA</i> 92, 1218-21. 3. Marx, J.I. (1974) <i>Science</i> 185, 428-9. 4. Challa-Malladi, M. et al. (2011) <i>Cancer Cell</i> 20, 728-40. 5. Gorevic, P.D. et al. (1985) <i>J Clin Invest</i> 76, 2425-9. 6. Ohashi, K. (2001) <i>Pathol Int</i> 51, 1-10.					
Species Reactiv	ʻity	Species reactivity is de	etermined 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	ey .	W: Western Blotting					
Cross-Reactivity	у Кеу	H: Human Mk: Monkey					
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