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β 2-microglobulin (D8P1H) Rabbit mAb (PE Conjugate)

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

Applications: FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P61769	Entrez-Gene Id: 567
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibodies. Protect from light. Do not freeze.</i>	
Specificity/Sensitivity	β 2-microglobulin (D8P1H) Rabbit mAb recognizes endogenous levels of total β 2-microglobulin protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp79 of human β 2-microglobulin protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated β 2-microglobulin (D8P1H) Rabbit mAb #12851.	
Background	β 2-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, β 2-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 <i>β2-microglobulin</i> gene function, thereby allowing tumor cells to escape immune detection (4). In addition, β 2-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 References	<ol style="list-style-type: none"> 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 Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human Mk: Monkey
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