

56712

GM-CSF (E8I1V) Rabbit mAb



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 15, 18, 22	Source/Isotype: Rabbit IgG	UniProt ID: #P04141	Entrez-Gene Id: 1437
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		GM-CSF (E8I1V) Rabbit mAb recognizes endogenous levels of total GM-CSF protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro29 of human GM-CSF protein.				
Background		GM-CSF is produced by activated T cells, NK cells and macrophages (1,5). Target cells include granulocyte, monocyte precursors and subsets of differentiated myeloid cells (1,2,3). Many target cells require GM-CSF for survival. GM-CSF induces proliferation, is involved in hematopoietic differentiation of dendritic cells, and is a key factor in differentiation pathways leading from stem cells. GM-CSF activates effector functions of myeloid cells, thereby linking adaptive and innate immunity and in turn may boost anti-tumor immunity (4). GM-CSF receptor is composed of GM-CSFR α and the common β chain, β C, which is also utilized by IL-3 and IL-5 (1). Binding of GM-CSF initiates the Jak2, Stat5, and PI3K/Akt pathways (1).				
Background References		1. Guthridge, M.A. et al. (1998) <i>Stem Cells</i> 16, 301-13. 2. Sonoda, Y. et al. (1988) <i>Proc Natl Acad Sci U S A</i> 85, 4360-4. 3. Sonoda, Y. et al. (1988) <i>Blood</i> 72, 1381-6. 4. de la Cruz-Merino, L. et al. (2008) <i>Oncologist</i> 13, 1246-54. 5. Zhang, A.L. et al. (2007) <i>Blood</i> 110, 2484-93.				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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 Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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