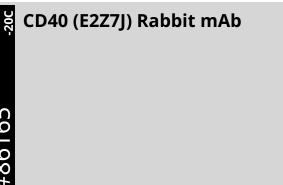
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<b>Applications:</b> W, IP, IHC-Bond, IHC-P	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P27512	Entrez-Gene Id: 21939	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistr	y (Paraffin)		1: 1: 1:	ilution 1000 200 400 400	
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		For a carrier free (BSA and azide free) version of this product see product #19554. CD40 (E2Z7J) Rabbit mAb recognizes endogenous levels of total mouse CD40 protein. This antibody does not cross-react with human CD40 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val289 of mouse CD40 protein.					
Background		CD40, also known as tumor necrosis factor receptor superfamily member 5 (TNFRSF5), is a type I transmembrane protein expressed on the surface of B cells and professional antigen-presenting cells of the immune system, as well as on several non-hematopoietic cell types and cancers (1-4). CD40 interacts with CD40 ligand (CD40L/TNFSF5), which is expressed primarily on activated T cells but has also been reported on blood platelets, mast cells, basophils, NK cells, and B cells (5). Upon engagement with CD40L, CD40 signals through TNF receptor associated factors and MAP kinase signaling pathways, resulting in a wide variety of immune and inflammatory responses, including dendritic cell activation and cross-presentation, T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation (6-8). The CD40/CD40L axis is essential for the initiation and progression of cellular and humoral adaptive immunity, and is an important area of interest in the study of tumor immunology, neurodegenerative diseases, vascular diseases, and inflammatory disorders (9-12).					
Background Re	ferences	1. Banchereau, J. et al. 2. Cooke, P.W. et al. (19 3. Hakkarainen, T. et al 4. Slobodova, Z. et al. (2 5. Gauchat, J.F. et al. (19 6. Quezada, S.A. et al. (19 7. Spriggs, M.K. et al. (20 9. Korniluk, A. et al. (20 10. Townsend, K.P. et al 11. Hassan, G.S. et al. (20	99) <i>J Pathol</i> 188, 38 . (2003) <i>Clin Cance</i> 2011) <i>Neoplasma</i> 5 993) <i>FEBS Lett</i> 315, 2004) <i>Annu Rev In</i> 992) <i>J Exp Med</i> 17 99 <i>Immunol Rev</i> 2: 14) <i>Tumour Biol</i> 3 I. (2005) <i>Eur J Imm</i> 2012) <i>Immunobiol</i>	3-43. r Res 9, 619-24. 58, 189-97. 259-66. 57, 1543-50. 29, 152-72. 5, 9447-57. unol 35, 901-10. ogy 217, 521-32.			
Species Reactiv	/ity	Species reactivity is det	ermined by testing	g in at least one approve	d 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		<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-Bond:</b> IHC Leica Bond <b>IHC-P:</b> Immunohistochemistry (Paraffin)					

Cross-Reactivity Key	M: Mouse			
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