3/23/24, 11:43 AM Revision 4

e at -20C	CD3ε (D4V8L) Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: F WB, IHC-Bond, IHC-P	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit IgG	UniProt ID: #P22646	Entrez-Gene Id: 12501		
Product Usage Information	W IH	pplication estern Blotting IC Leica Bond munohistochemistry	(Paraffin)		Dilution 1:1000 1:50 - 1:: 1:75 - 1::	200		
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. <i>Do not aliquot the antibody.</i> For a carrier-free (BSA and azide free) version of this product see product #47359						
Specificity / Sensitivity		CD3ε (D4V8L) Rabbit mAb recognizes endogenous levels of total mouse CD3ε protein. Non-specific staining in mouse pancreas has been observed.						
		CD3ɛ (D4V8L) Rabbit mAb may react weakly with human CD3ɛ, but is not suggested for use in immunohistochemical analysis of human tissues. Instead, CD3ɛ (D7A6E [™]) XP [®] Rabbit mAb #85061 is recommended for IHC analysis of human tissue samples.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val31 of mouse CD3 ϵ protein.						
Background	ant ma TC one for as liga	igens is relayed to the inly on CD3 (Cluster of R. CD3 is composed e immunoreceptor tyre eign antigens induces docking sites for sign	e intracellular sig of Differentiation of four polypepti osine-based acti tyrosine phospl aling molecules onformational ch	T cell receptor (TCR), i gnal transduction machi i 3), a multiunit protein c ides: ζ , γ , ε , and δ . Each vation motif (ITAM) (2). norylation in the ITAM m such as ZAP-70 and the nange in CD3 ε , such tha (5).	nery (1). This activation complex that directly as n of these polypeptides Engagement of the TC notifs and phosphorylat e p85 subunit of PI-3 ki	n process depends sociates with the contains at least CR complex with red ITAMs function inase (3,4). TCR		
Background References		 Kuhns, M.S. et al. (2006) <i>Immunity</i> 24, 133-139. Pitcher, L.A. and van Oers, N.S. (2003) <i>Trends Immunol.</i> 24, 554-560. Osman, N. et al. (1996) <i>Eur. J. Immunol.</i> 26, 1063-1068. Hatada, M.H. et al. (1995) <i>Nature</i> 377, 32-38. Gil, D. et al. (2002) <i>Cell</i> 109, 901-912. 						
Species Reactivity	Spe	cies reactivity is deter	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer		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 Key	WE	B: Western Blotting IH	C-Bond: IHC Le	eica Bond IHC-P: Immu	nohistochemistry (Para	affin)		
Cross-Reactivity Key		 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						
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