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Applications: W, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous (IHC- P), Transfected (W)	MW (kDa): 35	Source/Isotype: Rabbit IgG	UniProt ID: #P46094	Entrez-Gene Id: 2829
Product Usage Information		Application Western Blotting IHC Leica Bond Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50 - 1:200 1:100 - 1:400	
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. <i>Do not aliquot the antibody.</i>				
		For a carrier free (BSA a	nd azide free) ver	sion of this product see	product #63684.	
Specificity/Sensitivity		XCR1 (D2F8T) Rabbit mAb recognizes endogenous levels of total XCR1 protein by IHC-P and transfected levels of XCR1 protein by Western. Staining of unknown specificity in peripheral nerves has been observed.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human XCR1 protein.				
Background		X-C motif chemokine receptor 1 (XCR1, GPR5, CCXCR1), part of the G protein-coupled superfamily, is expressed by a subset of dendritic cells and acts as a receptor for chemokines XCL1 and XCL2 (1,2,4). XCR1-positive dendritic cells cross-present antigens to naïve CD8 ⁺ T cells, priming them to become activated cytotoxic CD8 ⁺ T cells (3-5). In mouse models, the XCL1-XCR1 signaling axis was shown to be involved in the formation of self-tolerance through the development of T _{reg} cells within the thymus (6).				
Background References		1. Yoshida, T. et al. (1998) <i>J Biol Chem</i> 273, 16551-4. 2. Fox, J.C. et al. (2015) <i>Cytokine</i> 71, 302-11. 3. Dorner, B.G. et al. (2009) <i>Immunity</i> 31, 823-33. 4. Kroczek, R.A. and Henn, V. (2012) <i>Front Immunol</i> 3, 14. 5. Bachem, A. et al. (2010) <i>J Exp Med</i> 207, 1273-81. 6. Lei, Y. et al. (2011) <i>J Exp Med</i> 208, 383-94.				
Species Reactiv	ity	Species reactivity is det	ermined 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		H: Human				
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