IFITM3 (D8E8G) XP[®] Rabbit mAb





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Applications: W, W-S, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 15	Source/Isotype: Rabbit IgG	UniProt ID: #Q01628	Entrez-Gene Id: 10410	
Product Usage Information Storage Specificity/Sens	itivity	Application Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry Supplied in 10 mM sod 0.02% sodium azide. St For a carrier free (BSA a IFITM3 (D8E8G) XP [®] Ra	y (Paraffin) ium HEPES (pH 7.5 ore at –20°C. Do n and azide free) ver bbit mAb recogniz), 150 mM NaCl, 100 µg/ ot aliquot the antibody. sion of this product see p es endogenous levels of	Dilution 1:1000 1:10 - 1:50 1:200 1:125 - 1:5 ml BSA, 50% glycer product #74766. total IFITM3 protei) 500 ol and less than n. This antibody	
		does not cross-react with IFITM1 or IFITM2 proteins.					
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val5 of human IFITM3 protein.			rresponding to		
Background		Interferon-induced transmembrane protein (IFITM) family members are composed of short amino- and carboxy-termini, two transmembrane domains, and a cytoplasmic domain (1). There are four family members in humans: IFITM1, IFITM2, IFITM3, and IFITM5 (2,3). Mice have two additional family members, IFITM6 and IFITM7 (2,3). Basal expression of IFITM proteins is observed in some cells and expression can also be induced by type I and type II interferons (4-6). The primary function of IFITM family proteins appears to be viral restriction, as IFITM proteins inhibit cytosolic entry of viruses by preventing fusion of viral and host membranes (7,8). The mechanism by which IFITM proteins inhibit fusion is unclear. Although IFITM proteins are present on both the plasma membrane and intracellular membranes, they most effectively restrict viral fusion in late endosomes and lysosomes (8,9). In addition, different family members exhibit specific viral preferences (9). For example, IFITM3 is most effective at restricting influenza A infection, while IFITM1 is more successful in controlling filoviruses and SARS (9,10).					
Background Ref	ferences	1. Diamond, M.S. and F 2. Lange, U.C. et al. (200 3. Hickford, D. et al. (200 4. Reid, L.E. et al. (1989) 5. Lewin, A.R. et al. (199 6. Friedman, R.L. et al. (200 8. Feeley, E.M. et al. (200 9. Huang, I.C. et al. (201 10. Everitt, A.R. et al. (201	arzan, M. (2013) N 03) BMC Dev Biol 3 12) BMC Genomic) Proc Natl Acad Sc 01) Eur J Biochem 1 (1984) Cell 38, 745- 9) Cell 139, 1243-5 9) Cell 139, 1243-5 11) PLoS Pathog 7, 012) Nature 484, 5	<i>at Rev Immunol</i> 13, 46-5 , 1. s 13, 155. <i>i U S A</i> 86, 840-4. 99, 417-23. 55. 4. , e1002337. e1001258. 19-23.	7.		
Species Reactivi	itv	Species reactivity is det	ermined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	ıffer	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 Ke	у	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivity	/ Key	H: Human					

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