

IFN-β1 (D2J1D) Rabbit mAb



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

Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 24, 26	Source/Isotype: Rabbit IgG	UniProt ID: #P01575	Entrez-Gene Id : 15977
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		For a carrier free (BSA and azide free) version of this product see product #15454.				
Specificity/Sensitivity		IFN-β1 (D2J1D) Rabbit mAb recognizes endogenous levels of total IFN-β1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant mouse IFN-β1 protein.				
Background		The type I interferon (IFN) family includes IFN- β 1 and IFN- α 1 through IFN- α 13 in humans and IFN- α 1 through IFN- α 14 in mice. Type I IFN is produced following detection of pathogen-associated molecular patterns (PAMPs) and is important for induction of antiviral genes, activation of dendritic cells, and initiation of adaptive immunity (1, 2). Type I IFNs signal through the IFN alpha receptor (IFNAR), which is a heterodimer composed of IFNAR1 and IFNAR2. Activation of IFNAR leads to formation of the nuclear complex IFN-stimulated gene factor 3 (ISGF3), which consists of STAT1, STAT2, and IRF-9 (3, 4). ISGF3 binds to IFN-stimulated response elements (ISREs) to initiate transcription of interferon-stimulated genes (3).				
Background References		1. Paludan, S.R. and Bowie, A.G. (2013) <i>Immunity</i> 38, 870-80. 2. Ivashkiv, L.B. and Donlin, L.T. (2014) <i>Nat Rev Immunol</i> 14, 36-49. 3. Levy, D.E. et al. (1989) <i>Genes Dev</i> 3, 1362-71. 4. Qureshi, S.A. et al. (1995) <i>Proc Natl Acad Sci U S A</i> 92, 3829-33.				
Species Reactivity		Species reactivity is determined by testing in at least one approved 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		M: Mouse				
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