## IFN-β1 (D2J1D) Rabbit mAb



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

| Applications:<br>WB, FC-FP   | Reactivity:<br>M                       | Sensitivity:<br>Endogenous   | <b>MW (kDa):</b> 24, 26 | Source/Isotype:<br>Rabbit IgG | UniProt ID:<br>#P01575 | Entrez-Gene Id:<br>15977 |
|--|--|--|-------------------------|-------------------------------|------------------------|--------------------------|
| Product Usage<br>Information   | Ар                                     | Application  |                         |                               | Dilution               |                          |
|  | We                                     | Western Blotting   |                         |                               |                        | 1:1000                   |
|  | Flo                                    | Flow Cytometry (Fixed/Permeabilized)   |                         |                               |                        | 1:3200                   |
| Specificity / Sensitivity IFN-β1 (D2J1D) Rabbit mAb recognizes endogenous levels of total IFN- |  |  |                         |                               | otal IFN-β1 protein.   |                          |
| Source / Purification  | on Mon                                 | oclonal antibody is  | produced by imn         | nunizing animals with re      | combinant mouse IFN    | I-β1 protein.            |
| Background   | throi<br>patte<br>of ac<br>hete<br>com | The type I interferon (IFN) family includes IFN- $\beta1$ and IFN- $\alpha1$ through IFN- $\alpha13$ in humans and IFN- $\alpha1$ through IFN- $\alpha14$ 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 Refer   | 2. lv<br>3. Le                         | <ol> <li>Paludan, S.R. and Bowie, A.G. (2013) <i>Immunity</i> 38, 870-80.</li> <li>Ivashkiv, L.B. and Donlin, L.T. (2014) <i>Nat Rev Immunol</i> 14, 36-49.</li> <li>Levy, D.E. et al. (1989) <i>Genes Dev</i> 3, 1362-71.</li> <li>Qureshi, S.A. et al. (1995) <i>Proc Natl Acad Sci U S A</i> 92, 3829-33.</li> </ol>  |                         |                               |                        |                          |

**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** 

WB: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)

**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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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