IFN-y (D3H2) XP[®] Rabbit mAb



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WB, ÎP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 17, 19, 23	Source/Isotype: Rabbit IgG	UniProt ID: #P01579	Entrez-Gene lo 3458	
Product Usage Information	Ap	plication				Dilution	
	We	estern Blotting				1:1000	
	Imi	munoprecipitation				1:50	
	Imi	munofluorescence (Immunocytochen	nistry)		1:100	
	Flo	w Cytometry (Fixed	/Permeabilized)			1:400	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less the 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #56007.					
Specificity / Sens	itivity IFN	IFN-y (D3H2) XP^{\circledR} Rabbit mAb recognizes endogenous levels of total IFN-y protein					
Source / Purificat	ion Mor	noclonal antibody is	produced by imm	nunizing animals with red	combinant human IFI	N-y protein.	
Background	acti anti by 1 pres app due proi indu	IFN-y plays key roles in both the innate and adaptive immune response. IFN-y activates the cytotoxic activity of innate immune cells, such as macrophages and NK cells (1,2). IFN-y production by NK cells and antigen presenting cells (APCs) promotes cell-mediated adaptive immunity by inducing IFN-y production by T lymphocytes, increasing class I and class II MHC expression, and enhancing peptide antigen presentation (1). Due to differences in the degree of glycosylation, there are three forms of IFN-y, with approximate molecular weights of 25, 20, and 15.5 kDa by SDS-PAGE (5). The anti-viral activity of IFN-y is due to its induction of PKR and other regulatory proteins. Binding of IFN-y to the IFNGR1/IFNGR2 complex promotes dimerization of the receptor complexes to form the (IFNGR1/IFNGR2) ₂ -IFN-y dimer. Binding induces a conformational change in receptor intracellular domains and signaling involves Jak1, Jak2, and Stat1 (3). The critical role of IFN-y in amplification of immune surveillance and function is supported by increased susceptibility to pathogen infection by IFN-y or IFNGR knockout mice and in humans with inactivating mutations in <i>IFNGR1</i> or <i>IFNGR2</i> . IFN-y also appears to have a role in atherosclerosis (4).					
	incr	eased susceptibility	to pathogen infe	ptor intracellular domair plification of immune sur ction by IFN-y or IFNGR	veillance and functio knockout mice and i	ves Jak1, Jak2, and n is supported by n humans with	

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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 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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