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Product datasheet for AM26712RP-N

Interferon gamma (IFNG) Mouse Monoclonal Antibody [Clone ID: 4S.B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4S.B3
Applications:	FC
Recommended Dilution:	Flow cytometry: Human blood cells using 10 μl reagent / 100 μl of whole blood or 16 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human, Primate
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Interferon gamma derived from human leukocytes
Specificity:	The mouse monoclonal antibody 4S.B3 recognizes IFN-gamma, a 16-25 kDa cytokine produced by activated Th1 cells and NK cells. Binds both glycosylated and non-glycosylated protein.
Formulation:	Phosphate buffered saline (PBS) Label: PE State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	interferon, gamma
Database Link:	<u>Entrez Gene 3458 Human</u> <u>P01579</u>



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	Interferon gamma (IFNG) Mouse Monoclonal Antibody [Clone ID: 4S.B3] – AM26712RP-N
Background:	The Interferon gamma (IFN-gamma; 16-25 kDa) is an important regulator of the immune response, produced in activated Th1 cells and NK cells, particularly in response to IL-2, TNF- alpha and IL-12; its production is suppressed by IL-4, IL-10, and TGF-beta. The producing of IFN-gamma is activated by specific antigens or mitogens through the T cell antigen receptor. IFN-gamma polypeptide forms: 40-60 kDa forms are observable under non-denaturing conditions as dimers and trimers; 20 kDa and 25 kDa forms exist due to variable glycosylation. IFN-gamma belongs to the type II interferons, also called immune IFN. IFN-gamma shows antiviral activity and has important immunoregulatory functions. It is a potent activator of macrophages and had antiproliferative effects on transformed cells. IFN- gamma plays an important role in regulating B cell differentiation by simultaneously stimulating class switch recombination to the IgG3 and IgG2a isotypes while represing class switch recombination to the IgE and IgG1 isotypes. It also appears to promote antigen presentation by B cells through its effects on MHC. Binding of IFN-gamma to its receptor increases the expression of class I MHC on all somatic cells. It also enhances the expression of class II MHC on antigen-presenting cells. IFN-gamma is the major means by which T cells activate macrophages, increasing their ability to kill
	bacteria, parasites, and tumours. The activation of macrophages by IFN-gamma is essential for the elimination of bacteria that replicate within the phagosomes of macrophages (f.e. Mycobacteria and Listeria monocytogenes). IFN-gamma can potentiate the high antiviral and antitumor effects of the type I interferons (IFN-alpha, IFN-beta). IFN-gamma may also activate neutrophils and NK cells.
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	class II MHC on antigen-presenting cells. IFN-gamma is the major means by which T cells activate macrophages, increasing their ability to kill bacteria, parasites, and tumours. The activation of macrophages by IFN-gamma is essential for the elimination of bacteria that replicate within the phagosomes of macrophages (f.e. Mycobacteria and Listeria monocytogenes). IFN-gamma can potentiate the high antiviral and antitumor effects of the type I interferons (IFN-alpha, IFN-beta). IFN-gamma may also activate neutrophils and NK

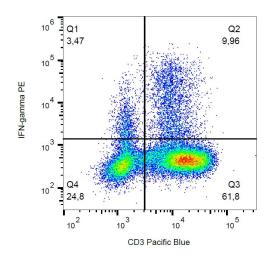
Synonyms:

IFN-gamma, gamma IFN

cells.

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Product images:



Intracellular staining of IFN gamma in PHAactivated human PBMC with anti-IFN gamma (4S.B3) PE.

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