

			nal Antibody
Code:	211-44-529B	Lot no.:	
sotype:	Mouse IgG1ĸ	Exp:	1 year from date of dispatch
Clone:	45-15		
Quantity:	500 μ g (1.0 mg/ml) azide free antibody in PBS pH 8.0.		
Source:	Tissue culture supernatant		
Purification:	Affinity chromatography.		
Specificity:	gamma $(IFN-\gamma)^1$. This antik	body does <u>not</u> react	and the natural form of human interferon with human IL-4, IFN- α or acid inactivate eat-inactivated IFN- γ (<0.05%) ¹ .
	as an antibody pair to implement a highly sensitive Chemiluminescent Immuno Assay (CLIA) for human IFN- γ (0.5 pg/ml as the detection limit) and a bead-based CLIA (detection limit of 0.2 pg/ml) ¹ . <u>Cytokine Immunotrapping Assay (CITA)</u> : Clones 43-11 and 45-15 can be used in combination to study the early production of human IFN- γ in a highly sensitive chemiluminescent based Cytokine Immunotrapping Assay (CITA) ³ . <u>Neutralization</u> : This antibody is suitable for neutralization of the biologic activity of human IFN- γ^1 . <u>Flow cytometry (FACS)</u> : Intracellular staining of IFN- γ producing cells was demonstrated for clone 45-15. Mitogen stimulated purified T cells were treated with saponin and monensin to yield a strong positive signal by flow cytometry ² . With the use of allergen specific T cell clones derived from patients with atopic dermatitis, a high degree of correlation between ELISA measurement in the supernatants and intracellular FACS analysis was observed with respect to the pattern of cytokine production (Th0, Th1 and Th2). <u>ELISA</u> A biotinylated version (Cat # 211-44-229A) of clone 45-15 may be used as the detecting antibody in a two-site sandwich ELISA for measuring human IFN- \square levels. The purified form of clone 43-11, (Cat # 211-44-129A) may be used as the capture reagent ¹ with recombinant human IFN- γ (Cat # 111-40-129) as the standard. Optimal concentration for the biotinylated detection antibody (clone 45-15) was 1µ/ml. This ELISA measured human IFN- γ with a detection limit of 37 pg/ml ¹ . The detection limit may be increased to 15 pg/ml with the use of a bead-ELISA assay ¹ . We recommend that each laboratory determine an optimum working titre for use in its particular application.		
References:	 Alkan et al. (1994). "Chemiluminescent and enzymatic-linked immuno assays for sensitive detection of human IFN-γ". J. Immunoassays, 15 (3): 217-238. Jung T. et al. (1995). "Interleukin-4 and interleukin-5 are rarely co-expressed by human T cells". Eur. J. Immunol. 25: 2413-2416. Akdis, A.C., et al. (1995). "Cytokine Immunotrapping: an assay to study the kinetics of production and consumption or degradation of human interferon γ". J. Immunol. Methods. 182:251-261. 		
Storage:		tion into small volu	odium azide or other preservatives, we mes under sterile conditions and store a
	-20 C. Avoid repeated free	ze thaw cycles.	

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UNITED KINGDOM, INTERNATIONAL:
 AMS BIOTECHNOLOGY (EUROPE) LTD.
 AMS BIOTECHNOLOGY (EUROPE) LTD.

 184 MILTON PARK, ABINGDON, OXON, OX14 4SE
 CENTRO NORD-SUD 2E, CH-6934 BIOGGIO (LUGANO)

 TEL: +44 (0)1235 828200
 TEL: +41 (0)91 6045522

 FAX: +44 (0)1235 820482
 FAX: +41 (0)91 6051785

SWITZERLAND:

DEUTSCHLAND: AMS BIOTECHNOLOGY (EUROPE) LTD.

TEL: +49 (0)69 779099 FAX: +49 (0)69 13376880