

Purified Rabbit Anti-rat IFN γ

Catalog Number: TP236

Lot Number:

Content: Protein A purified rabbit IgG, 500 μ g, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 500 μ l PBS)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with rat IFN γ , was generated using *E. coli*-expressed rat IFN γ as an immunogen. This antibody has been tested on ELISPOT.

Cross-reactivity to IFN γ of other species has not been determined.

Storage Condition: 4 C for short term storage or -20 C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: IFN γ (Interferon- γ) is a cytokine that is produced by TH2-like CD4⁺ T cells¹. It is engaged in inflammatory response against invading infectious agents. Overreaction to infectious disease and overproduction of IFN γ could lead to immunopathology, a process very similar to autoimmune response. Therefore, anti-IFN γ can play a role in limiting the intensity and/or duration of toxic immune response^{2,3}. This is seen as anti-IFN γ antibodies can

interfere with the generation of cytotoxic lymphocytes⁴. In another case, anti-IFN- γ has also been used to reverse cancer cachexia⁵.

References:

1. Seder, RA. et al. (1994) Acquisition of lymphokine-producing phenotype by CD4+ T cells. *Annu Rev Immunol* 12: 635-73
2. Pena, AS. et al. (1998) Advances in the immunogenetics fo coeliac disease. Clues for understanding the pathogenesis and disease hereogeneity. *Scand J Gastroenterol Suppl* 225: 56-8
3. Blanchard, TG. et al. (1998) Review article: Immunological determinants that may affect the Helicobacter pylori cancer risk. *Aliment Pharmacol Ther* 12 Suppl 1: 83-90
4. Caruso, A. et al. (1997) Natural antibodies to interferon-gamma. *Biotherapy* 10 (1): 29-37
5. Noguchi, Y. et al. (1996) Are cytokines possible mediators of cancer cachexia? *Surg Today* 26 (7): 467-75