

## Anti Human Interferon-Gamma (IFN- $\gamma$ ) Purified Monoclonal Mouse Antibody

**Code:** 211-44-129A **Lot no.:**  
**Clone:** 43-11 **Expiration:** 1 year from date of dispatch  
**Isotype:** IgG1 $\kappa$   
**Quantity:** 500  $\mu$ g purified antibody in 0.1 ml of phosphate buffered saline, pH 8.0 containing 0.1% (w/v) NaN<sub>3</sub>.

**Source:** Tissue culture supernatant.

**Purification:** Affinity Chromatography

**Specificity:** This antibody recognizes both the recombinant and the natural form of human interferon-gamma (IFN- $\gamma$ ) (1). This antibody *does not react* with human IL-4, IFN- $\alpha$  or acid inactivated IFN- $\gamma$ , and it shows only a minimal reactivity with heat-inactivated IFN- $\gamma$  (<0.05%) (1).

**Applications:** ELISA: Purified anti human IFN- $\gamma$  antibody (clone 43-11) can be used as the capture reagent in a two-site sandwich ELISA. The biotinylated form of the anti human IFN- $\gamma$  monoclonal (clone 45-15; Cat # 211-44-229B) may be used as the detecting antibody (1), and recombinant human IFN- $\gamma$  (Cat # 111-40-129) as the standard. The optimal concentration of clone 43-11 for coating ELISA plates was 5  $\mu$ g/ml. This ELISA measured human IFN- $\gamma$  with a detection limit of 37 pg/ml (1). The detection limit can be increased to 15 pg/ml with the use of a bead-ELISA assay (1).

Chemiluminescent Immuno Assay (CLIA): Clones 43-11 and 45-15 can be used together as an antibody pair to implement a highly sensitive Chemiluminescent Immuno Assay (CLIA) for human IFN- $\gamma$  (0.5 pg/ml as the detection limit) and a bead-based CLIA (detection limit of 0.2 pg/ml) (1).

Cytokine Immunotrapping Assay (CITA): Clones 43-11 and 45-15 can be used in combination to study the early production of human IFN- $\gamma$  in a highly sensitive chemiluminescent based Cytokine Immuno-trapping Assay (CITA) (2).

Neutralization: This antibody is not suitable for neutralization studies. For neutralization of the biologic activity of human IFN- $\gamma$  the use of clone 45-15 (Cat # 211-44-529B) is recommended (1).

**References:** 1. Alkan, S.S. et al. "Chemiluminescent and enzymatic-linked immuno assays for sensitive detection of human IFN- $\gamma$ " *J. Immunoassays*, **15**(3): 217-238 (1994).  
 2. Akdis, A.C., et al. "Cytokine Immunotrapping: an assay to study the kinetics of production and consumption or degradation of human interferon  $\gamma$ ". *J. Immunol. Methods*. **182**:251-261. (1995).

**Storage:** For use within 1 month store at +4°C, for long term storage aliquot antibody into small volumes and store at -20°C. Avoid repeated freeze thaw cycles.

**For Research Use Only. Not For Diagnostic or Therapeutic Use.**

**Conditions:** The information disclosed herein is not to be considered as a recommendation to use the above product in violation of any patents. ImmunoKontakt will not be held responsible for patent infringement or other violations that may occur with the use of our products.

**Caution:** Sodium azide (NaN<sub>3</sub>) yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before.

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