

**IFN gamma Rat mAb**

Catalog: BS36136

Host: Rat

Reactivity: Mouse

**BackGround:**

Interferon gamma: Type II interferon produced by immune cells such as T-cells and NK cells that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation. Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation. Upon IFNG binding, IFNGR1 intracellular domain opens out to allow association of downstream signaling components JAK2, JAK1 and STAT1, leading to STAT1 activation, nuclear translocation and transcription of IFNG-regulated genes. Many of the induced genes are transcription factors such as IRF1 that are able to further drive regulation of a next wave of transcription. Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits. In turn, increases the quantity, quality, a...

**Product:**

Rat IgG1. 1mg/ml in PBS, pH 7.3, and 0.02% sodium azide.

**Molecular Weight:**

~17.9 kDa

**Swiss-Prot:****Purification&Purity:**

The antibody was purified by affinity chromatography.

**Applications:**

IF/ICC (1/50 - 1/200), FC (1/500 - 1/2000)

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

Recognizes mouse IFN gamma

**DATA:**

Western blot analysis of PLC gamma 2 (Phospho-Y753) expression in Hela TNFa-treated (A), MCF7 (B), Raw264.7 TNFa-treated (C), mouse kidney (D), rat kidney (E) whole cell lysates.

Immunohistochemical analysis of PLC gamma 2 (Phospho-Y753) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Note:**

For research use only, not for use in diagnostic procedure.

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