

**cGAS monoclonal antibody**

Catalog: MB67150

Host: Mouse

Reactivity: Human

**BackGround:**

Cyclic GMP-AMP synthase (cGAS, MB21D1) is an anti-viral enzyme that produces the second messenger cyclic-GMP-AMP (cGAMP) in response to cytoplasmic DNA. The cGAS protein acts as a cytosolic DNA sensor that binds DNA and produces the cGAMP second messenger from ATP and GTP. cGAMP binds to and activates STING, a transmembrane adaptor protein that is a critical component of the cellular innate immune response to pathogenic cytoplasmic DNA. STING is ubiquitously expressed and found predominantly in the ER. Following activation, STING translocates with TBK1 to perinuclear endosomes. The TBK1 kinase phosphorylates and activates interferon regulatory factors (IRFs) and NF- $\kappa$ B, which leads to the induction of type I interferon and other immune response genes.

**Product:**

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

**Molecular Weight:**

~ 64 kDa

**Swiss-Prot:**

Q8N884

**Purification&Purity:**

This antibody is purified through a protein G column.

**Applications:**

WB (1/500 - 1/1000)

**Storage&Stability:**

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

**Specificity:**

Recognizes endogenous levels of cGAS protein.

**DATA:**

Western blot analysis of cGAS expression in HeLa (A) whole cell lysates.

**Note:**

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

**Bioworld Technology, Inc.**

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

**Bioworld technology, co. Ltd.**

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogol.com](mailto:info@biogol.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151