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Phospho-STING (Ser366) (D8K6H) Rabbit mAb (Alexa Fluor® 488 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q86WV6	Entrez-Gene Id: 340061
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Product Usage Information

Application

Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:100
1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

Phospho-STING (Ser366) (D8K6H) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of STING protein only when phosphorylated at Ser366.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser366 of human STING protein.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-STING (Ser366) (D8K6H) Rabbit mAb #40818.

Background

Stimulator of interferon genes (STING, TMEM173, MITA) is a transmembrane adaptor protein that is a critical component of the cellular innate immune response to pathogenic cytoplasmic DNA (1,2). STING is a ubiquitously expressed protein found predominantly in the ER (1). The enzyme cGAMP synthase (cGAS) produces the second messenger cyclic-GMP-AMP (cGAMP) in response to cytoplasmic DNA (3,4). cGAMP binds and activates STING (3,4). In addition, detection of cytoplasmic DNA by nucleic acid sensors, including DDX41 or IFI16, results in STING activation (5,6). Following activation, STING translocates with TBK1 to perinuclear endosomes (7). The TBK1 kinase phosphorylates and activates interferon regulatory factors (IRFs) and NF-κB, which leads to the induction of type I interferon and other immune response genes (1,2,7).

Background References

1. Ishikawa, H. and Barber, G.N. (2008) *Nature* 455, 674-8.
2. Zhong, B. et al. (2008) *Immunity* 29, 538-50.
3. Sun, L. et al. (2013) *Science* 339, 786-91.
4. Wu, J. et al. (2013) *Science* 339, 826-30.
5. Zhang, Z. et al. (2011) *Nat Immunol* 12, 959-65.
6. Unterholzner, L. et al. (2010) *Nat Immunol* 11, 997-1004.
7. Ishikawa, H. et al. (2009) *Nature* 461, 788-92.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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