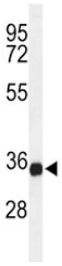
STING Antibody (TMEM173) (F51890)

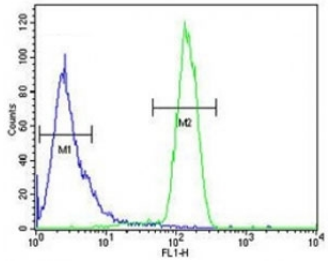
Catalog No.	Formulation	Size
F51890-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51890-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q86WV6
Applications	Western Blot : 1:1000 Flow Cytometry : 1:10-1:50
Limitations	This STING antibody is available for research use only.



Western blot analysis of lysate from U-937 cell line using STING antibody at 1:1000. Predicted molecular weight ~42/35kDa, observed here at 35kDa.



STING antibody flow cytometric analysis of HeLa cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

Facilitator of innate immune signaling that acts as a sensor of cytosolic DNA from bacteria and viruses and promotes the production of type I interferon (IFN-alpha and IFN-beta). Innate immune response is triggered in response to non-CpG double-stranded DNA from viruses and bacteria delivered to the cytoplasm. Acts by recognizing and binding cyclic di-GMP (c-di-GMP), a second messenger produced by bacteria, and cyclic GMP-AMP (cGAMP), a messenger produced in response to DNA virus in the cytosol: upon binding of c-di-GMP or cGAMP, autoinhibition is alleviated and TMEM173/STING is able to activate both NF-kappa-B and IRF3 transcription pathways to induce expression of type I interferon and exert a potent anti-viral state. May be involved in translocon function, the translocon possibly being able to influence the induction of type I interferons. May be involved in transduction of apoptotic signals via its association with the major histocompatibility complex class II (MHC-II). Mediates death signaling via activation of the extracellular signal-regulated kinase (ERK) pathway. Essential for the induction of IFN-beta in response to human herpes simplex virus 1 (HHV-1) infection. [UniProt]

Application Notes

Titration of the STING antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 311-340 from the human protein was used as the immunogen for this STING antibody.

Storage

Aliquot the STING antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.