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Anti-STING/TMEM173 Rabbit pAb (A72201)

Catalog No.: A72201

Basic Information

Catalog No. (Cat.No.)	A72201
Host species	Rabbit
Reactivity	Human,Mouse
Applications	WB,IHC,IF,ELISA
Synonyms	STING/TMEM173,STING,MITA,ERIS,MPYS

Product Information

Target	STING/TMEM173
Molecular Weight(Calculated)	42 kDa
Molecular Weight(Observed)	38 kDa
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Polyclonal
Clone No.	NA
RRID	NA
Storage buffer	50% Glycerol, 0.5% BSA and 0.02% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500-1:2000
IHC	1:100-1:300
IF	1:50-1:200
ELISA	1:20000

Target Information

Protein Name	Stimulator of interferon genes
Gene Name	*TMEM173*
Domain	human Transmembrane protein 173, aa 301-350
Background	TMEM173 (STING, Stimulator of interferon genes) is endoplasmic-reticulum-resident transmembrane adaptor serving as central hub of cGAS-STING innate-immunity pathway for cytosolic-DNA-sensing signal transduction. Cytosolic-DNA-activated cGAS generates second-messenger cGAMP, which binds ER-localized STING and triggers STING oligomerization and Golgi translocation. STING recruits and activates TBK1 kinase to phosphorylate IRF3 and NF-κB, inducing type-I-interferon and pro-inflammatory-cytokine production to initiate antiviral and anti-tumor immune responses. Loss-of-function STING mutations impair cytosolic-DNA immune surveillance, while aberrant STING activation drives auto-inflammatory disorders.