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Anti-TMEM173 Rabbit mAb [73A55]

Catalog No.: A52328

Basic Information

Catalog No. (Cat.No.)	A52328
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	TMEM173,STING/TMEM173,STING,MITA,ERIS,MPYS

Product Information

Target	TMEM173
Molecular Weight(Calculated)	42 kDa
Molecular Weight(Observed)	37 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	73A55
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% 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	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Stimulator of interferon genes
Gene Name	*TMEM173*
Domain	NA
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.