



Anti-TMEM173 monoclonal antibody, clone 5I9 (CABT-ZC1320)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse Monoclonal Antibody to Human TMEM173 molecule
Antigen Description	TMEM173 is a recently identified adaptor found to be a critical component of the cellular innate immune response to pathogenic cytoplasmic DNA. It is ubiquitously expressed, resides in the ER, and has five transmembrane regions. Detection of cytoplasmic DNA by nucleic acid sensors such as DDX41 or IFI16 leads to their association with STING. This causes STING, in a complex with TBK1, to traffic through the Golgi to perinuclear endosomes where TBK1 phosphorylates and activates IRFs and NF-kappaB, ultimately leading to induction of type I interferon and other genes important for the immune response. In addition, RIG-I, the cytoplasmic receptor for 5' triphosphorylated viral RNA, was shown to associate with and require STING for induction of type I interferon. Finally, STING was recently demonstrated to be a direct sensor of cyclic dinucleotides produced by bacteria.
Target	TMEM173
Immunogen	Full length human recombinant protein of human TMEM173 produced in HEK293T cell.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	5I9
Conjugate	Unconjugated
Applications	ELISA, LMNX
Buffer	Stored in PBS (pH 7.4) with 0.05% sodium azide, 10mg/ml BSA, 50% glycerol.

Preservative	0.05% Sodium Azide
Storage	Shipped at 4 °C. Upon delivery store at -20 °C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

GENE INFORMATION

Entrez Gene ID	340061
UniProt ID	Q86WV6