

# Bovine Transmembrane protein 173 (TMEM173) ELISA Kit



Catalog No: #EK6410

Orders: order@signalwayantibody.com

Package Size: #EK6410-1 48T #EK6410-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Bovine Transmembrane protein 173 (TMEM173) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	ERIS; FLJ38577; MITA; MPYS; NET23; STING; N-terminal methionine-proline-tyrosine-serine plasma membrane tetraspanner endoplasmic reticulum IFN stimulator mitochondrial mediator of IRF3 activation st
Accession No.	Q2KI99
Uniprot	Q2KI99
GeneID	533661;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TMEM173 in samples. An antibody specific for TMEM173 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMEM173 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM173 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TMEM173 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The deduced 379-amino acid protein has a calculated molecular mass of 42.2 kD. It has 5 putative N-terminal transmembrane domains, a signal cleavage site in the first transmembrane domain, and a leucine-rich region that overlaps the first 4 transmembrane domains. Northern blot analysis detected STING expression in all tissues examined. Confocal microscopy and fractionation analysis of human embryonic kidney 293 cells revealed that STING predominantly associated with the endoplasmic reticulum (ER). Western blot analysis of 293 cells detected endogenous STING at an apparent molecular mass of 42 kD.STING activated both the NF-kappa-B and IRF3 transcription pathways to induce expression of IFN-alpha (IFNA1) and IFN-beta and exert a potent antiviral effect.

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Note: This product is for in vitro research use only