

For Research Use Only

Anti-Human TGM2 Rabbit Recombinant Antibody

Catalog Number: 98749-1-RR



Basic Information

Catalog Number:

98749-1-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

GeneID (NCBI):

7052

ENSEMBL Gene ID:

ENSG00000198959

UNIPROT ID:

P21980

Full Name:

transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)

Purification Method:

Protein A purification

CloneNo.:

253540A1

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra) : HeLa cells, HUVEC cells

Background Information

Transglutaminase 2 (TGM2) is a ubiquitous and multifunctional calcium-dependent enzyme belonging to the transglutaminase family. It is best known for its canonical activity of catalyzing the cross-linking of proteins by forming stable ε-(γ-glutamyl)lysine isopeptide bonds, which contributes to extracellular matrix stabilization and wound healing. Beyond this, TGM2 exhibits GTPase activity, allowing it to function as a signaling G-protein in intracellular processes. It is implicated in a wide range of physiological functions, including cell adhesion, proliferation, and apoptosis, as well as pathological conditions such as celiac disease, fibrosis, neurodegenerative disorders, and cancer metastasis, where its dysregulated expression often contributes to disease progression.

Storage

Storage:

Store at 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

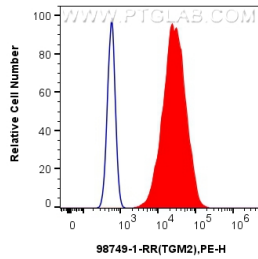
T: 4006900926

E: Proteintech-CN@ptglab.com

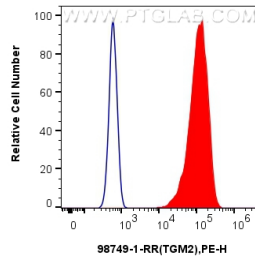
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g Anti-Human TGM2 Rabbit RecAb (98749-1-RR, Clone:253540A1) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 μ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



1×10^6 HUVEC cells were intracellularly stained with 0.25 μ g Anti-Human TGM2 Rabbit RecAb (98749-1-RR, Clone:253540A1) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 μ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).