

Datasheet for ABIN7126999

anti-Transglutaminase 2 antibody



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Overview

Quantity:	100 µg
Target:	Transglutaminase 2 (TGM2)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Transglutaminase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant full-length human TGM2 protein
Isotype:	IgG1
Specificity:	Tissue transglutaminase (tTG) is a 75 kDa monomeric globular protein expressed in the majority of cells and tissues. tTG localizes mainly in the cytoplasm but some tTG is present on the cell surface and is associated with the extracellular matrix. In addition to its guanosine triphosphatase (GTPase) activity, tTG catalyzes the posttranslational modification of proteins by transamidation of available glutamine residues (Monsonogo, 1997). Extracellular tTG is able to bind to and cross-link several ECM proteins and may function to stabilize the ECM and basement membranes. The protein is translated as a fully active enzyme and there is no evidence for proteolytic activation. High constitutive expression and accumulation of active tTG is observed in (among others) endothelial cells, platelets, vascular smooth muscle cells and epithelial cells of the lens. tTG is expressed at very low levels in skeletal muscle cells and

Product Details

neurons and may be difficult to detect in these cell/tissue types.

Cross-Reactivity (Details): Human, Mouse and Rat.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: Transglutaminase 2 (TGM2)

Alternative Name: TGM2 ([TGM2 Products](#))

Background: Protein-glutamine gamma-glutamyltransferase 2, TG2, TGase C, TGase H, TGase-2, Tgasell, TGC, TGM2, Tissue type transglutaminase, Transglutaminase 2 C polypeptide, Transglutaminase H, tTG, tTGase, Transglutaminase II (TGM2) (FN Binding Domain)
Cellular localisation: Cytoplasm. Cell surface.

Molecular Weight: 77-85kDa

Gene ID: 7052, 517033

UniProt: [P21980](#)

Pathways: [Tube Formation](#), [Thromboxane A2 Receptor Signaling](#)

Application Details

Application Notes: Known_Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Positive_Control: HUVEC cells. Endothelial cells in placenta, liver, brain, or breast carcinoma.
Smooth muscle cells of any origin.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Prepared in 10 mM PBS, WITHOUT BSA and Azide.

Preservative: Azide free

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months