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DATA SHEET

Mouse Anti-Transglutaminase II [TGM2/419]: MC0959, MC0959RTU7

Intended Use: For Research Use Only

Description: Transglutaminase II catalyzes calcium-dependent post-translational modification of proteins by formation of an isopeptide bond within or between polypeptide chains. It is also known as TGC, tTG, type II-, Gh, cytosolic-, liver-, endothelial-, erythrocyte-, cellular-transglutaminase. Different tissues and cell types express varying amounts of tissue transglutaminase with a markedly high expression in rheumatoid lesions. It is implicated in programmed cell death, signal transduction, drug-resistance, cell growth, endocytosis, insulin secretion, cell adhesion, cataract formation, and wound healing.

Specifications

Clone:	TGM2/419
Source:	Mouse
Isotype:	IgG2a/k
Reactivity:	Human, monkey, rabbit, mouse, rat
Localization:	Membrane, cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., IF

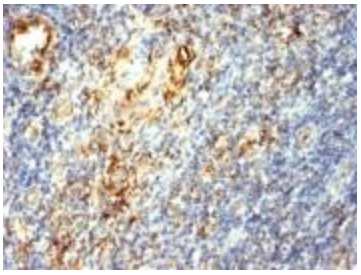
Package:

Description	Catalog No.	Size
Transglutaminase II Concentrated	MC0959	1 ml
Transglutaminase II Prediluted	MC0959RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Breast cancer
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti- Transglutaminase II using DAB

References:

1. PLA2G5 regulates transglutaminase activity of human IL-4-activated M2 macrophages through PGE2 generation. Yamaguchi M, et al. J Leukoc Biol 100:131-41, 2016.
2. Stromal Activation by Tumor Cells: An in Vitro Study in Breast Cancer. Merlino G, et al. Microarrays (Basel) 5:N/A, 2016.
3. Tissue transglutaminase contributes to the pathogenesis of preeclampsia and stabilizes placental angiotensin receptor type 1 by ubiquitination-preventing isopeptide modification. Liu C, et al. Hypertension 63:353-61, 2014.
4. Molecular cloning of human epidermal transglutaminase cDNA from keratinocytes in culture. Yamanishi, K., et al. Biochem. Biophys. Res. Commun. 175: 906-913, 1991.

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