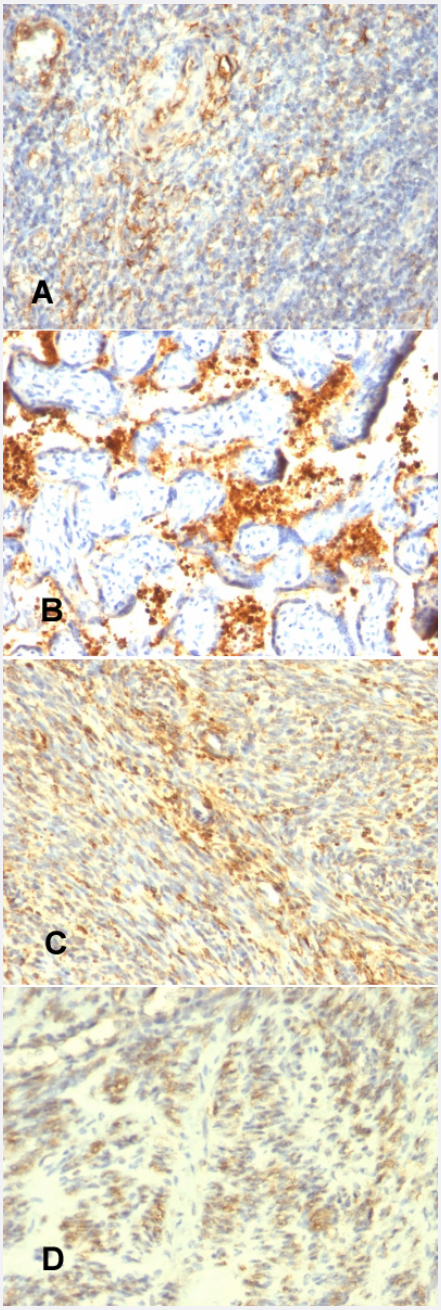
TGM2 monoclonal antibody, clone SPM358

Catalog # MAB14616 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of (A) human tonsil (B) human placenta (C) human uterus and (D) human leiomyosarcoma with TGM2 monoclonal antibody, clone SPM358 (Cat # MAB14616).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human TGFA.
Immunogen	Recombinant protein corresponding to full length human TGM2.
Host	Mouse
Theoretical MW (kDa)	77-85
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/million cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

- Flow Cytometry

Gene Info — TGM2

Entrez GeneID	7052
Protein Accession#	P21980

Gene Name	TGM2
Gene Alias	G-ALPHA-h, GNAH, TG2, TGC
Gene Description	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
Omim ID	190196
Gene Ontology	Hyperlink
Gene Summary	Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	C polypeptide|OTTHUMP00000030960|TGase C|TGase-H|protein-glutamine-gamma-glutamyltransferase|tissue transglutaminase|transglutaminase 2|transglutaminase C

Publication Reference

- Molecular cloning of human epidermal transglutaminase cDNA from keratinocytes in culture.

  Yamanishi K, Liew FM, Konishi K, Yasuno H, Doi H, Hirano J, Fukushima S.

  Biochemical and Biophysical Research Communications 1991 Mar; 175(3):906.

Disease

- Celiac Disease
- Diabetes Mellitus
- Exfoliation Syndrome
- Genetic Predisposition to Disease
- Glaucoma
- Schizophrenia