Recombinant Transglutaminase II (TGM2) Antibody

Rabbit Monoclonal Antibody [Clone TGM2/6943R]

Catalog No	Format	Size
7052-RBM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7052-RBM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7052-RBM3-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

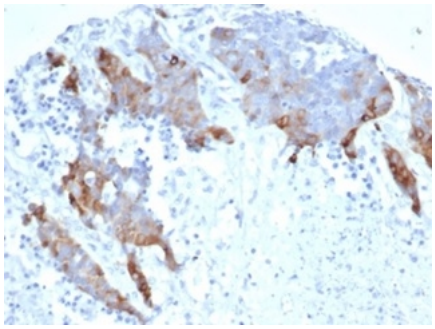
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

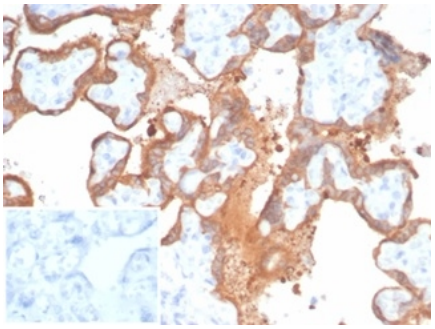
Clone	TGM2/6943R
Immunogen	Recombinant full-length human TGM2 protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	77.33kDa
Cellular Localization	Cell membrane, Chromosome, Cytoplasm, Cytosol, Extracellular matrix, Extracellular space, Mitochondrion, Nucleus, Perinuclear region, Secreted
Species Reactivity	Human
Positive Control	Brain, HUVEC cells. Endothelial cells in placenta, Liver, or breast carcinoma. Smooth muscle cells of any origin.

**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant Transglutaminase II (TGM2) Antibody



Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with Transglutaminase 2 Recombinant Rabbit Monoclonal Antibody (TGM2/6943R). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded human placenta stained with Transglutaminase 2 Recombinant Rabbit Monoclonal Antibody (TGM2/6943R). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

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 tGT is present on the cell surface and is association 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. 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 neurons and may be difficult to detect in these cell/tissue types.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.