

## Transglutaminase II (TGM2) (FN Binding Domain) Antibody

Mouse Monoclonal Antibody [Clone TGM2/3612]

| Catalog No      | Format  | Size   |
|-----------------|---|--------|
| 7052-MSM2-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 7052-MSM2-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 7052-MSM2-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

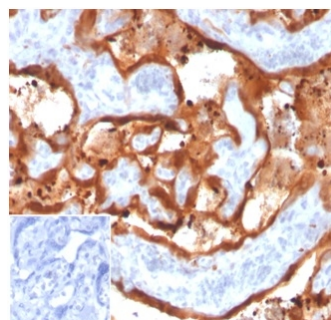
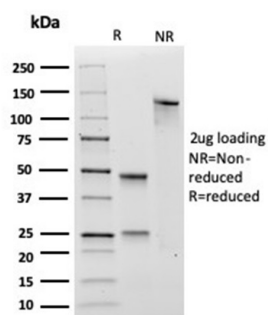
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunofluorescence (IF)    | 1-3ug/ml            |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining 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

|                               |  |
|-------------------------------|--|
| <b>Clone</b>                  | TGM2/3612  |
| <b>Gene Name</b>              | TGM2   |
| <b>Immunogen</b>              | Recombinant full-length human TGM2 protein   |
| <b>Host</b>                   | Mouse  |
| <b>Clonality</b>              | Monoclonal   |
| <b>Isotype / Light Chain</b>  | IgG1 / Kappa   |
| <b>Mol. Weight of Antigen</b> | 77-85kDa   |
| <b>Cellular Localization</b>  | Cell membrane, Chromosome, Cytoplasm, Cytosol, Extracellular matrix, Extracellular space, Mitochondrion, Nucleus, Perinuclear region, Secreted |
| <b>Species Reactivity</b>     | Human, Mouse, Rat  |
| <b>Positive Control</b>       | 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 Transglutaminase II (TGM2) (FN Binding Domain) Antibody



SDS-PAGE Analysis of Purified Transglutaminase II Mouse Monoclonal Antibody (TGM2/3612). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human placenta stained with Transglutaminase II Mouse Monoclonal Antibody (TGM2/3612). 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 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 neurons and may be difficult to detect in these cell/tissue types.

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### **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.

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### **Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### **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.

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### **Research Areas**

Cardiovascular

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