

## Transglutaminase-2 (TG2) Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 90021 (clone 7D2)  
**Format:** 100ug, Protein A-purified, lyophilized, 0.1M Tris, 0.1M glycine, 2% sucrose, 1mg/ml.

### BACKGROUND

Transglutaminase 2 (TG2) is a multi-domain, multi-functional enzyme that post-translationally modifies proteins by catalyzing the formation of inter-molecular isopeptide bonds between glutamine and lysine side-chains. It plays a role in diverse biological functions, including extracellular matrix formation, integrin mediated signaling, and signal transduction involving 7-transmembrane receptors. While some of the roles of TG2 under normal physiological conditions remain obscure, the protein is believed to participate in the pathogenesis of several unrelated diseases including celiac sprue, neurodegenerative diseases, and certain types of cancer.

### SPECIFICATION SUMMARY

**Antigen:** Purified TG2 from guinea pig liver (accession no. P21980).  
**Host species:** Mouse.  
**Antibody Class:** IgG3.  
**Preservative:** None.

### SPECIFICITY

This antibody recognizes guinea pig and human TG2.

### APPLICATIONS

*Immunoblotting:* use at 1-5ug/ml. A band of ~80kDa is detected.



Detection of TG2 in human erythrocytes with #90021.

*Immunocytochemistry:* use at 2-10ug/ml.

These are recommended concentrations. Enduser should determine optimal concentrations for their applications.

### RECONSTITUTION

Reconstitute in distilled water.

### STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C to -70°C. Reconstituted product should be stored in appropriate aliquots to avoid repeated freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*