

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Transglutaminase 7/TGM7 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) Transglutaminase 3 is observed, and less than 2% cross-reactivity with rhTransglu
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Transglutaminase 7/TGM7
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Transglutaminase 7 (TG7), encoded by the TGM7 gene, is also known as protein-glutamine-g-glutamyltransferase Z (Tgase Z) (1). It belongs to the family of Transglutaminases that catalyze the posttranslational modification of proteins via calcium dependent cross-linking reactions (2-4). TG7 is ubiquitously expressed in humans (1). Members of the TGM family have been implicated in a variety of human diseases including neurodegenerative diseases, celiac disease, lamellar ichthyosis, bleeding disorders, cataract formation, atherosclerosis, and others (5).

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