

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Transglutaminase 3/TGM3 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Transglutaminase 3/TGM3 Ala2-Glu693 Accession # NP_003236
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
Immunohistochemistry	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 3 (TG3), also known as epidermal Transglutaminase (Tgase E), belongs to the family of Transglutaminase enzymes that catalyze the posttranslational modification of proteins via calcium dependent cross-linking reactions (1-3). TG3 is involved in the formation of the cornified envelope in skin keratinocytes (4). It functions to cross-link structural proteins during epidermal terminal differentiation. TG3 has been implicated as the dominant autoantigen in dermatitis herpetiformis (5). TG3 activation requires proteolysis of the 77 kDa zymogen into two fragments of approximately 50 and 27 kDa to form the active enzyme (1).

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