

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Transglutaminase 7/TGM7 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human TGM2, 3, 4, or recombinant mouse TGM2 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 602708
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Transglutaminase 7/TGM7 Asp2-Pro710 Accession # Q96PF1
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 (TGM7), also known as protein-glutamine γ -glutamyltransferase Z, TGase Z and TGZ, is an 80 kDa, widely expressed member of the Transglutaminase superfamily and family. Human Transglutaminase 7 is 710 amino acids (aa) in length and contains a Transglutaminase family, C-terminal Ig like domain (aa 608-705). Human Transglutaminase 7 shares 78% aa identity with mouse Transglutaminase 7. Like other Transglutaminases, Transglutaminase 7 is an enzyme that stabilizes protein assembly through the formation of intra- or intermolecular N ϵ (γ -glutamyl)lysine bonds. It catalyzes a calcium-dependent transferase reaction between the γ -carboxamide group of a peptide-bound glutamine residue and various primary amines, most commonly the ϵ -amino group of lysine residues.

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