

Human Transglutaminase 7/TGM7 Antibody

Monoclonal Rat IgG_{2A} Clone # 602708 Catalog Number: MAB5426

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	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human Transglutaminase 7/TGM7 Asp2-Pro710 Accession # Q96PF1	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

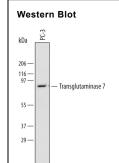
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA

19 -



Detection of Human Transglutaminase 7/TGM7 by Western Blot. Western Blot shows Iysates of PC-3 human prostate cancer cell line. PVDF Membrane was probed with 2 μ g/mL of Rat Anti-Human Transglutaminase 7/TGM7 Monoclonal Antibody (Catalog # MAB5426) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Transglutaminase 7/TGM7 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

I ILLI AIGHTON AND CICINOL		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

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 Nε(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.

Rev. 2/7/2018 Page 1 of 1

