Datasheet for ABIN6940725

anti-Transglutaminase 2 antibody

5 Images

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Overview

Quantity:	100 µg
Target:	Transglutaminase 2 (TGM2)
Reactivity:	Human, Mouse, Rat, Monkey, Rabbit
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Transglutaminase 2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human TGM2 protein
Clone:	SPM358
Isotype:	IgG2a kappa
Specificity:	Recognizes a 77-85 kDa protein, identified as cellular or tissue transglutaminase II (TGase II). Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. The identification of transglutaminase as the main antigen of endomysium antibodies allows a new diagnostic approach to celiac disease (CD), a genetic, immunologically mediated small bowel enteropathy that causes malabsorption. TGase

Product Details

	II is implicated in programmed cell death, signal transduction, drug-resistance, cell growth, endocytosis, insulin secretion, cell adhesion, cataract formation, and wound healing.
Purification:	Purified by Protein A/G

Target Details

Target:	Transglutaminase 2 (TGM2)
Alternative Name:	TGM2 (TGM2 Products)
Molecular Weight:	77-85kDa
Gene ID:	7052
UniProt:	P21980
Pathways:	Tube Formation, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	Positive Control: HUVEC cells. Endothelial cells in placenta, liver, brain or breast carcinoma. Smooth muscle cells of any origin (e. G. Intestine). Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µ g/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL, 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

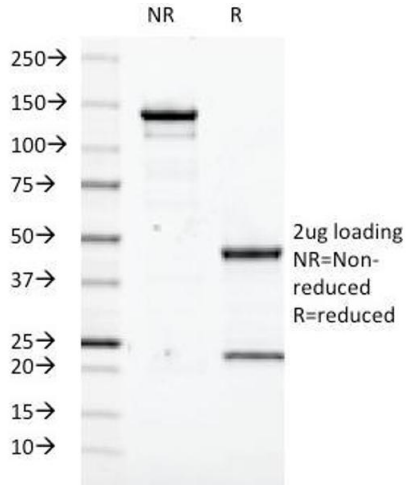
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

Handling

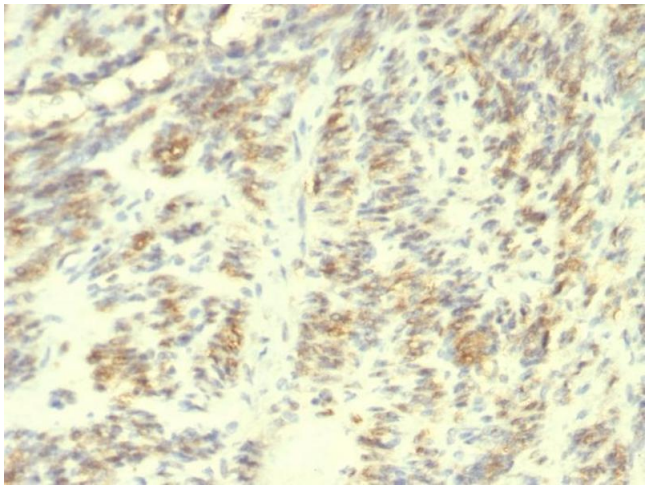
	is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



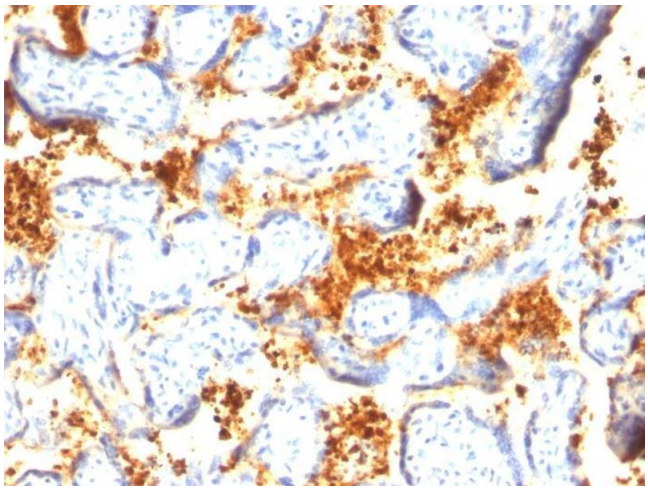
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Transglutaminase II Mouse Monoclonal Antibody (SPM358). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Transglutaminase II Mouse Monoclonal Antibody (SPM358).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Placenta stained with Transglutaminase II Mouse Monoclonal Antibody (SPM358).

Please check the product details page for more images. Overall 5 images are available for ABIN6940725.