Datasheet for ABIN6156781

anti-Transglutaminase 2 antibody (CF®488A)

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Overview

Quantity:	100 µL
Target:	Transglutaminase 2 (TGM2)
Reactivity:	Human, Mouse, Rat, Monkey, Rabbit
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Transglutaminase 2 antibody is conjugated to CF®488A
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Purpose:	Mouse Monoclonal anti-Transglutaminase-II (TGM2/419), CF488A Conjugate
Immunogen:	Recombinant full-length human TGM2 protein
Clone:	TGM2-419
Isotype:	IgG2a kappa
Characteristics:	This antibody 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

Product Details

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 II is implicated in programmed cell death, signal transduction, drug-resistance, cell growth, endocytosis, insulin secretion, cell adhesion, cataract formation, and wound healing. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	Transglutaminase 2 (TGM2)
Alternative Name:	Transglutaminase-II (TGM2 Products)
Molecular Weight:	77-85 kDa
Gene ID:	7052, 517033
UniProt:	P21980
Pathways:	Tube Formation, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	Immunohistology formalin-fixed 0.5-1 µg/mL • 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 • Immunofluorescence 0.5-1 µg/mL • Flow Cytometry 0.5-1 µg/million cells/0.1 mL • Optimal dilution for a specific application should be determined by user
Comment:	HUVEC Cells. Endothelial cells in placenta, liver, brain, or breast carcinoma. Smooth muscle cells of any origin (e.g. intestine)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	100 µg/mL

Handling

Buffer:	PBS/0.1 % 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.
Handling Advice:	Protect from light