

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MFAP3 in direct ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 1059216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell, HEK293-derived human MFAP3 Leu22-Met147 Accession # P55082
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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

Microfibril-associated glycoprotein 3 (MFAP3), is a member of the MFAP family which play a role in microfibril assembly, elastinogenesis, and tissue homeostasis. The family members were identified as potential components of fibrillin-containing microfibrils, but they do not share structural similarities (1). MFAP3 is found in ocular zonules. Human MFAP3 is a serine-rich acidic protein located in zonular fibers and consists of an extracellular domain (ECD) containing one Ig-like C2-type domain, a single transmembrane domain, and a cytoplasmic domain. Within the ECD, mature human MFAP3 shares 74% amino acid sequence identity with mouse and rat MFAP3. Among MFAP3-related pathways are degradation of the extracellular matrix and elastic fiber formation. MFAP is a candidate gene for heritable diseases affecting microfibrils (2).

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