

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
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.

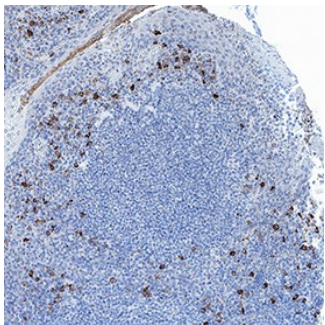
APPLICATIONS

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
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of Human Tonsil

DATA

Immunohistochemistry



Detection of MFAP3 in Human Tonsil. MFAP3 was detected in immersion fixed paraffin-embedded sections of Human Tonsil using Mouse Anti-Human MFAP3 Monoclonal Antibody (Catalog # MAB10798) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

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.

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).

References:

1. Gibson, M.A. Landes Bioscience <https://www.ncbi.nlm.nih.gov/books/NBK6448/>.
2. Abrams W.R. (1995) Genomics **26**:47.

