

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Myocilin in direct ELISAs. In direct ELISAs, 75% cross-reactivity with recombinant mouse Myocilin is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 297817
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Myocilin Arg33-Met504 Accession # Q99972
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.

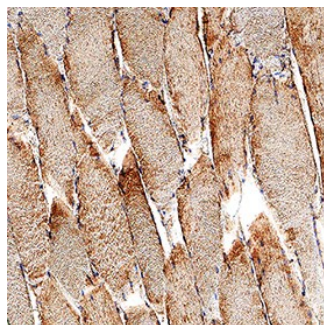
APPLICATIONS

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 Skeletal Muscle

DATA

Immunohistochemistry



Myocilin in Human Skeletal Muscle. Myocilin was detected in immersion fixed paraffin-embedded sections of Human Skeletal Muscle using Mouse Anti-Human Myocilin Monoclonal Antibody (Catalog # MAB3446) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). 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 sarcoplasm and sarcolemma in skeletal muscle cells. 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. <ul style="list-style-type: none"> • 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

Myocilin (also known as TIGR) is a variably glycosylated, 65 kDa, secreted polypeptide that belongs to the family of olfactomedin-related proteins. Human Myocilin is synthesized as a 490 aa precursor that contains an 18 aa signal sequence, an 84 aa N-terminus, a 53 aa α-helical leucine zipper and a 335 aa C-terminus that contains a 260 aa OLF-domain. An alternate start site generates a signal-sequenceless 504 aa mature protein. Myocilin forms nondisulfide-linked dimers and multimers. The human 32 kDa OLF-domain shares 87% aa sequence identity with the OLF-domain in bovine, rat, and mouse.