

Mouse Anti-FHL1 [MD423]: MC0683, MC0683RTU7

Intended Use: For Research Use Only

Description: Four-and-a-half LIM domains 1 (FHL1), a member of the FHL protein family, which composed of FHL 1, 2, 3, 4 and ACT (activator of CREM), and characterized by an N-terminal half LIM domain followed by four complete LIM domains. FHL1 provides instructions for making proteins found mainly in skeletal and cardiac muscles. It may contribute to sarcomere synthesis, assembly and biomechanical stress sensing. FHL1 is also a methylation-silenced tumor-suppressor gene on chromosome X in gastrointestinal cancers, which contributes to the formation of an epigenetic field for cancerization. FHL is highly expressed in skeletal muscle and to a lower level in heart, placenta, ovary, prostate, testis, small intestine, colon and spleen.

Specifications:

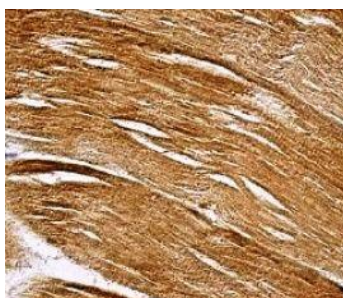
Clone:	MD423
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Human FHL1 protein aa 1-280
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB
Package:	

Description	Catalog No.	Size
FHL1 [MD423] Concentrated	MC0683	1 ml
FHL1 [MD423] Prediluted	MC0683RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Skeletal and cardiac muscle
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human skeletal muscle tissue stained with anti-FHL1 using DAB

References:

1. Src-mediated phosphorylation converts FHL1 from tumor suppressor to tumor promoter. Xiang Wang, et al. RepJ Cell Biol. Apr 2;217(4):1335-1351, 2018. doi: 10.1083/jcb.201708064.
2. A signature motif in LIM proteins mediates binding to checkpoint proteins and increases tumour radiosensitivity. Xiaojie Xu, et al. Nat Commun. Jan 17;8:14059, 2017. doi: 10.1038/ncomms14059.
3. Inhibition of FHL1 inhibits cigarette smoke extract-induced proliferation in pulmonary arterial smooth muscle cells. Yuping Li, et al. Sep;12(3):3801-3808, 2015. doi: 10.3892/mmr.2015.3787.

Doc. 100-MC0683
Rev. A