**BACKGROUND**

Muscle atrophy F-box (MAFbx) is an E3 ubiquitin ligase that initiates ATP-dependent ubiquitin-mediated proteolysis and promotes muscle atrophy. MAFbx transcript is abundant in cardiac and skeletal muscle undergoing atrophy. MAFbx-/- mice are resistant to muscle atrophy. MAFbx is thought to recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation during skeletal muscle atrophy. MAFbx interacts with MyoD by ubiquitination via a sequence found in transcriptional activators and therefore may play an important role in the course of muscle differentiation by determining the abundance of MyoD. MAFbx is specifically expressed in cardiac and skeletal muscle.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FBXO32 (human) mapping to 8q24.13, FBXO25 (human) mapping to 8p23.3; Fbxo32 (mouse) mapping to 15 D1, Fbxo25 (mouse) mapping to 8 A1.1.

**SOURCE**

MAFbx (F-9) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of MAFbx of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MAFbx (F-9) is available conjugated to agarose (sc-166806 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166806 HRP), 200 µg/ml, for WB, IHC(PE) and ELISA; to either phycoerythrin (sc-166806 PE), fluorescein (sc-166806 FITC), Alexa Fluor® 488 (sc-166806 AF488), Alexa Fluor® 546 (sc-166806 AF546), Alexa Fluor® 594 (sc-166806 AF594) or Alexa Fluor® 647 (sc-166806 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-166806 AF680) or Alexa Fluor® 790 (sc-166806 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

MAFbx (F-9) is recommended for detection of MAFbx isoforms 1-3 and FBXO25 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immuno fluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of MAFbx: 42 kDa.
Positive Controls: MAFbx (m): 293T Lysate: sc-121485.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.