bsm-54451R **[Primary Antibody]**

Fbx32 Recombinant Rabbit mAb

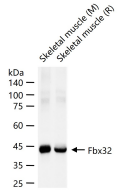
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 2A3
GeneID: 114907
SWISS: Q969P5
Target: Fbx32
Immunogen: A synthesized peptide derived from human FBXO32: 20-84.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.
Background: Fbx32 is an E3 ubiquitin ligase that initiates ATP dependent ubiquitin-mediated proteolysis and promotes muscle atrophy. It is highly expressed during muscle atrophy, whereas mice deficient in this gene were found to be resistant to atrophy. It is also thought to recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation during skeletal muscle atrophy. Fbx32 interacts with MyoD by ubiquitination via a sequence found in transcriptional coactivators and therefore may play an important role in the course of muscle differentiation by determining the abundance of MyoD.

Applications: **WB** (1:500-2000)
ICC/IF (1:50-200)
Reactivity: Mouse, Rat
(predicted: Human)
Predicted MW.: 42 kDa
Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with Fbx32 monoclonal antibody, unconjugated (bsm-54451R) at 1:10000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=8.713]** Zhao-Bo Luo. et al. Fecal transplant from myostatin deletion pigs positively impacts the gut-muscle axis. ELIFE. 2023; 12: e81858 WB ;Mouse. 37039469
- **[IF=6.228]** Xuzhu Lin. et al. Undercarboxylated osteocalcin and ibandronate combination ameliorates hindlimb immobilization-induced muscle wasting. J PHYSIOL-LONDON. 2023 Apr;: WB ;Human. 36999349
- **[IF=5.085]** Shuang-Yan Chang. et al. miR-320 regulates myogenesis by targeting growth factor receptor-bound protein-2 and ameliorates myotubes atrophy. INT J BIOCHEM CELL B. 2022 Jun;147:106212 WB ;Mouse. 10.1016/j.biocel.2022.106212
- **[IF=4.755]** Zhang Lijiao. et al. Dysregulated myokines and signaling pathways in skeletal muscle dysfunction in a

cigarette smoke–induced model of chronic obstructive pulmonary disease. FRONT PHYSIOL. 2022 Aug;0:1600 WB ;Mouse. 36091368

- **[IF=4.171]** Xunyu Wei. et al. Zanthoxylum Alkylamides Ameliorate Protein Metabolism in Type 2 Diabetes Mellitus Rats by Regulating Multiple Signaling Pathways. 2021 Mar 11 WB ;Rat. 10.1039/D0FO02695F