

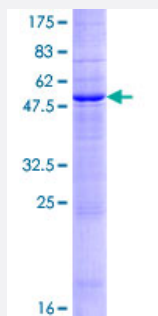
Full-Length

MARCH5 (Human) Recombinant Protein (P01)

Catalog # H00054708-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MARCH5 full-length ORF (NP_060294.1, 1 a.a. - 278 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPDQALQQMLDRSCWVCFATDEDDRTAEWVRPCRCRGSTKWVHQACLQRWVDEKQRGNST
ARVACPQCNAEYLVFPKLGPPVYVLDLADRLISKACPFAAAGIMVGSYWTAVTYGAVTVMQVVG
HKEGLDVMERADPLFLLIGLPTIPVMLILGKMIRWEDYVLRRLWRKYSNKLQILNSIFPGIGCPVPRIPA
EANPLADHVSATRILCGALVFPTIATVGKLMFSSVNSNLQRTILGGIAFVAIKGAFKVYFKQQQYLR
QAHRKILNYPEQEEA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

57.6

Interspecies Antigen Sequence

Mouse (100); Rat (100)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MARCH5

Entrez GeneID[54708](#)**GeneBank Accession#**[NM_017824.4](#)**Protein Accession#**[NP_060294.1](#)**Gene Name**

MARCH5

Gene Alias

FLJ20445, MARCH-V, MITOL, RNF153

Gene Description

membrane-associated ring finger (C3HC4) 5

Omim ID[610637](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

MARCH5 is a ubiquitin ligase of the mitochondrial outer membrane that plays a role in the control of mitochondrial morphology by regulating mitofusin-2 (MFN2; MIM 608507) and DRP1 (DNM1L; MIM 603850) (Nakamura et al., 2006 [PubMed 16936636]).[supplied by OMIM]

Other Designations

OTTHUMP00000020096|membrane-associated RING-CH protein V|mitochondrial ubiquitin ligase|ring finger protein 153

Publication Reference

- [MARCH5-dependent NLRP3 ubiquitination is required for mitochondrial NLRP3-NEK7 complex formation and NLRP3 inflammasome activation.](#)

Yeon-Ji Park, Niranjan Dodantenna, Yonghyeon Kim, Tae-Hwan Kim, Ho-Soo Lee, Young-Suk Yoo, June Heo, Jae-Ho Lee, Myung-Hee Kwon, Ho Chul Kang, Jong-Soo Lee, Hyeseong Cho.

The EMBO Journal 2023 Oct; 42(19):e113481.

Application: Pull-Down Assay, Mouse, BMDM cells