

F-box/LRR-repeat protein 17 (FBL17), Recombinant Protein

Cat *RP05231*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* F-box/LRR-repeat protein 17 (FBL17) , partial

Product Gene Name

FBL17 recombinant protein

Product Synonym Gene Name

FBL17

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

64,769 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

NP_567005.2

NCBI GI

42565930

NCBI GenBank Nucleotide

NM_115322.4

NCBI GeneID

824630

NCBI Official Full Name

RNI-like superfamily protein

NCBI Official Symbol

FBL17

NCBI Protein Information

RNI-like superfamily protein

UniProt Gene Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

F-box/LRR-repeat protein 17 (FBL17), Recombinant Protein

Cat *RP05231*

FBL17

UniProt Protein Name

F-box/LRR-repeat protein 17

UniProt Synonym Protein Names

F-box-like protein 17

UniProt Primary Accession

Q8W104

UniProt Secondary Accession

Q9M1T4

UniProt Related Accession

Q8W104

UniProt Comments

Essential protein for male fertility. Component of the SCF(ASK-cullin-F-box) E3 ubiquitin ligase complex SCF(FBL17), which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Enables the switch in cell cycle control leading to male germ cell lineage formation from microspores after meiosis. Targets CDKA-1 inhibitors the degradation specifically in male germ cells (e.g. KRP6 and KRP7) and thus enables CDKA-1 activation and germ cell S-phase progression. Promotes twin sperm cell production and double fertilization.

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