Protein SCAR2 (SCAR2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05485*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Protein SCAR2 (SCAR2) , partial

Product Gene Name
SCAR2 recombinant protein

Product Synonym Gene Name
SCAR2

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
151,585 Da

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

Protein Family
Protein

NCBI Accession
NP_181378.2

NCBI GI
30687512

NCBI GenBank Nucleotide
NM_129400.3

NCBI GeneID
818425

NCBI Official Full Name
SCAR homolog 2

NCBI Official Symbol
SCAR2

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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ATSCAR2; DIS3; IRREGULAR TRICHOME BRANCH1; IRREGULAR TRICHOME BRANCH1; ITB1; SCAR homolog 2; SCAR HOMOLOG 2; T19C21.7; T19C21_7; WAVE4

NCBI Protein Information

SCAR homolog 2

NCBI Summary

Encodes a subunit of the WAVE complex. The WAVE complex is required for activation of ARP2/3 complex which functions in actin microfilament nucleation and branching. Mutations cause defects in both the actin and microtubule cytoskeletons that result in aberrant epidermal cell expansion. itb1 mutants showed irregularities in trichome branch positioning and expansion. The SHD domain of this protein binds to BRK1 and overexpression of the SHD domain results in a dominant negative phenotype.

UniProt Gene Name

SCAR2

UniProt Synonym Gene Names

DIS3; ITB1; WAVE4; AtSCAR2

UniProt Protein Name

Protein SCAR2

UniProt Synonym Protein Names

Protein DISTORTED 3; Protein IRREGULAR TRICHOME BRANCH 1; Protein WAVE4

UniProt Primary Accession

Q5XPJ9

UniProt Secondary Accession

O80907

UniProt Related Accession

Q5XPJ9

UniProt Comments

Involved in regulation of actin and microtubule organization. Part of a WAVE complex that activates the Arp2/3 complex. Regulates trichome branch positioning and expansion.

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