

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



DIAPH2 Peptide

Cat No.: BS60413P

Background

Dia 1 (also designated p140mDia) and Dia 2 (also designated p134mDia 2), mammalian homologs of the *Drosophila* diaphanous gene, belong to a family of formin homology (FH) proteins which are characterized by having tandemly aligned FH1 and FH2 domains in their carboxy terminal regions. The amino terminus of inactivated Dia 1 binds to the FH1 and FH2 domains and is activated when GTP-bound Rho disrupts the intramolecular interaction of Dia 1 and converts it to an open conformation. Once activated, Dia 1 co-localizes with Profilin and RhoA in dynamic plasma membrane structures and induces the formation of stress fibers in conjunction with the ROCK-mediated signaling pathway. However, Dia 1 and ROCK activities antagonize each other in order to determine the thickness and density of the stress fibers formed.

Swiss-Prot

O60879

Applications

Blocking

Specificity

This peptide can be used with studies using BS60413 DIAPH2 pAb.

Purification & Purity

Synthetic peptide DIAPH2. (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

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