

DAAM1 (N-terminal region)

Cat. #	DM3511
Host	Mouse Monoclonal IgG2a
Size	100 μ l

Background:

Formins include several families of proteins that regulate actin cytoskeletal dynamics via two conserved formin homology domains, FH1 and FH2. The FH1 region contains poly-proline stretches that promote interactions with profilin. The FH2 domain, located C-terminally to the FH1 domain, is highly conserved in formin proteins and possesses actin nucleation and polymerization activities. Through cooperation of FH1 and FH2, formins construct actin-based structures comprising linear, unbranched filaments that are used in stress fibers, actin cables, microspikes, and contractile rings. Dishevelled associated activator of morphogenesis proteins (DAAM1 and DAAM2) are formin family members involved in WNT signaling. DAAM1 is ubiquitously expressed and may be important for regulating actin dynamics in several cell types. DAAM1 can bind RhoGTPase and dishevelled in WNT signaling pathways, and interacts with the SH3 domains of cell signaling mediators, such as c-Src.

References

- Habas, R. et al. (2001) Cell 107(7):843.
 Kida, Y. et al. (2004) Brain Res Dev Brain Res. 153(1):143.
 Aspenstrom, P. et al. (2006) Exp Cell Res. 312(12):2180.

Immunogen:

DAAM1 recombinant protein that included amino acid residues 1 to 111 in human DAAM1. This sequence has less than 50% homology to the N-terminal region of DAAM2.

Applications:

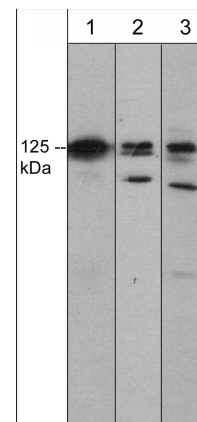
WB 1:500
 ELISA 1:1000

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Related Products:

- FP3481 FHOD1 (Thr-1141), phospho-specific Rabbit Polyclonal
 DP3491 mDia2 (C-terminal region) Rabbit Polyclonal
 FM3521 FHOD1 Mouse Polyclonal
 AK6060 Actin & Tubulin Antibody Sampler Kit
 RP1361 RhoA (Ser-188), phospho-specific Rabbit Polyclonal
 RP1501 Rho (Central Region) Rabbit Polyclonal

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Western blot analysis of DAAM1 expression in mouse C2C12 (lane 1), human A431 (lane 2), and K562 (lane 3) cell lysates. The blots were probed with mouse monoclonal DAAM1 (N-terminal region) antibody at 1:500.

Buffer and Storage:

Mouse monoclonal antibody is supplied in 100 μ l phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C . Do not aliquot. Stable for 1 year.

Specificity:

The antibody detects a 125 kDa* protein corresponding to the apparent molecular mass of DAAM1 on SDS-PAGE immunoblots of human A431, K562, and mouse C2C12 cells.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

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