

Anti-mDia1 (N-terminal region) Antibody
Catalog # AN1740**Specification**

Anti-mDia1 (N-terminal region) Antibody - Product Information

| | |
|-------------------|--------------------------|
| Primary Accession | O60610 |
| Reactivity | Bovine |
| Host | Rabbit |
| Clonality | Rabbit Polyclonal |
| Isotype | IgG |
| Calculated MW | 141347 |

Anti-mDia1 (N-terminal region) Antibody - Additional InformationGene ID **1729****Other Names**

Dia1, Diaph1, DRF-1, Diap1, p140Dia, formin

Target/Specificity

Formins include several families of proteins that regulate actin cytoskeletal dynamics via two conserved formin homology domains, FH1 and FH2. 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. A subgroup of the formins is the diaphanous (Dia) family, which includes mDia1 (Diap1), mDia2 (Diap3), and mDia3 (Diap2). The mDia1 protein is activated by Rho and leads to ROCK-dependent stress fiber formation. Rho-activated mDia1 regulates serum response factor-dependent transcription. In cancers, mDia1 has been implicated in ras-mediated transformation, metastasis, and invasion. Thus, mDia1 is a Rho-activated formin with both cytoskeletal- and transcription-regulating activities.

Format

Antigen Affinity Purified

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-mDia1 (N-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

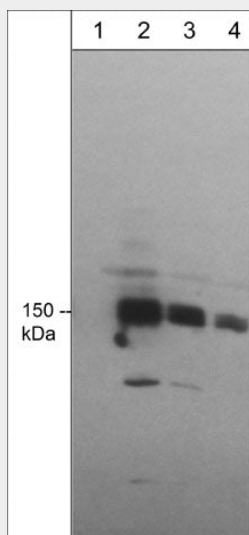
Anti-mDia1 (N-terminal region) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-mDia1 (N-terminal region) Antibody - Images



Western blot analysis of mDia1 expression in human Jurkat cells (lanes 1-4). The blots were probed with anti-mDia1 (a.a. 66-77: DP4471) in the presence (lane 1) or absence of blocking peptide (DX4475) using dilutions of 1:250 (lane 2), 1:1000 (lane 3), and 1:4000 (lane 4).

Anti-mDia1 (N-terminal region) Antibody - Background

Formins include several families of proteins that regulate actin cytoskeletal dynamics via two conserved formin homology domains, FH1 and FH2. 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. A subgroup of the formins is the diaphanous (Dia) family, which includes mDia1 (Diap1), mDia2 (Diap3), and mDia3 (Diap2). The mDia1 protein is activated by Rho and leads to ROCK-dependent stress fiber formation. Rho-activated mDia1 regulates serum response factor-dependent transcription. In cancers, mDia1 has been implicated in ras-mediated transformation, metastasis, and invasion. Thus, mDia1 is a Rho-activated formin with both cytoskeletal- and transcription-regulating activities.