

## Product datasheet for **TA336402**

### **D4 (ARHGDI2) Mouse Monoclonal Antibody [Clone ID: 10D774]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	10D774
<b>Applications:</b>	FC, ICC/IF, WB
<b>Recommended Dilution:</b>	Immunocytochemistry/ Immunofluorescence, Flow Cytometry, Western Blot: 1-2 ug/ml
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	A synthetic peptide corresponding to human D4-GDI/RhoGDI2 was used as the immunogen.
<b>Formulation:</b>	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein G purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	Rho GDP dissociation inhibitor beta
<b>Database Link:</b>	<a href="#">NP_001166</a> <a href="#">Entrez Gene 397 Human</a> <a href="#">P52566</a>
<b>Background:</b>	D4-GDI (GDP dissociation inhibitor) is a negative regulator of the ras-related Rho family of GTPases. Since the Rho GTPases promote cytoskeletal and membrane changes associated with apoptotic cell death, the removal of the D4-GDI block through its cleavage is important for inducing apoptosis. Caspase-3 cleaves the 28 kD mature form of D4-GDI to give a 23 kD and 5 kD size fragment. The 23 kD fragment then translocates to the nucleus. The mechanisms involving cleavage of D4-GDI with apoptosis are not presently known. Activation of the Jun N-terminal kinase, a regulator of apoptosis, may be one of the mechanisms.
<b>Synonyms:</b>	D4; GDIA2; GDID4; Ly-GDI; LYGDI; RAP1GN1; RhoGDI2

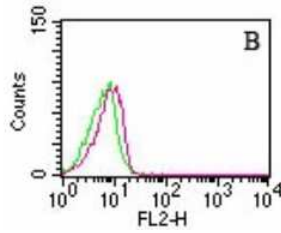
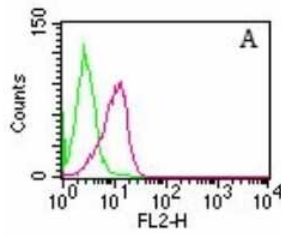


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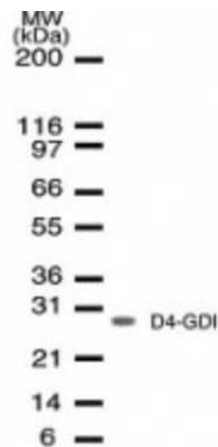
**Protein Families:** Druggable Genome

**Protein Pathways:** Neurotrophin signaling pathway

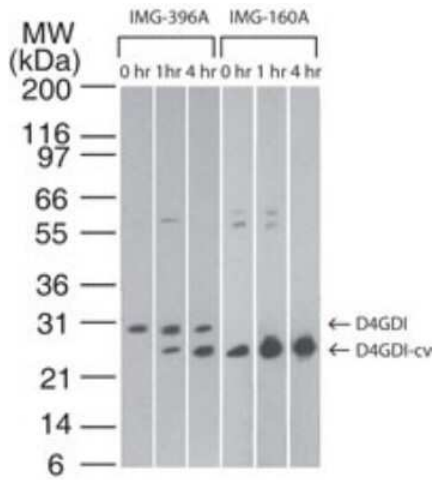
**Product images:**



Flow Cytometry: D4-GDI/RhoGDI2 Antibody (10D774) TA336402 - HL60 cells were left untreated (green) or treated with camptothecin to induce apoptosis (red). Cells were analyzed by intracellular flow cytometry using either the NB100-56725 or TA336402 D4-GDI antibodies (0.5 ug antibody/test/1 million cells) and Intracellular Staining Flow Assay Kit. A: NB100-56725 which recognizes only cleaved D4-GDI. B: TA336402 which recognizes both full-length and cleaved D4-GDI.



Western Blot: D4-GDI/RhoGDI2 Antibody (10D774) TA336402 - Western blot analysis of TA336402 in whole Jurkat cell lysate.



Western Blot: D4-GDI/RhoGDI2 Antibody (10D774) TA336402 - Analysis of D4GDI in Jurkat cells using TA336402 at 2 ug/ml and D4-GDI (cleavage specific) at 0.1 ug/ml. Cells were treated with 2 uM staurosporine for different time periods. TA336402 detects both the full-length and cleaved forms of D4GDI while D4-GDI (cleavage specific) specifically detects only the cleaved form of the protein.