

Product datasheet for **TA336465**

D4 (ARHGDI B) Mouse Monoclonal Antibody [Clone ID: 97A1015]

Product data:

Product Type:	Primary Antibodies
Clone Name:	97A1015
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: 0.5-1 ug/10 ⁶ cells, Immunohistochemistry: 1:10-1:500, Immunoprecipitation: 1-2 ug/ml, Western Blot: 2 ug/ml, Immunohistochemistry-Paraffin: 1:10-1:500, Flow (Intracellular): 0.5-1 ug/10 ⁶ cells
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to the region of the Fas-induced cleavage site of human D4-GDI/RhoGDI2 was used as the immunogen.
Formulation:	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.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Rho GDP dissociation inhibitor beta
Database Link:	NP_001166 Entrez Gene 11857 Mouse Entrez Gene 397 Human P52566



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Background:

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.

Synonyms:

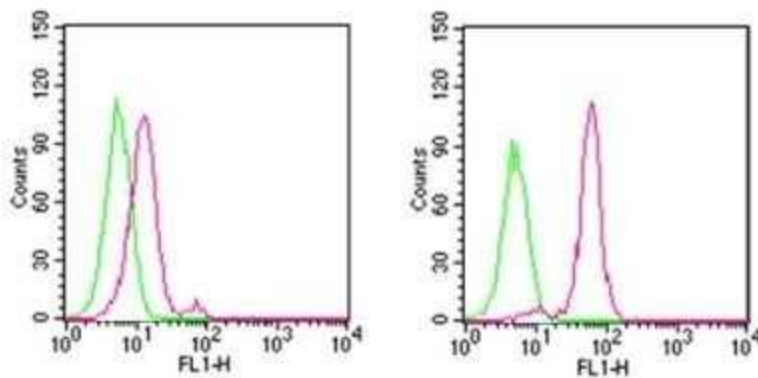
D4; GDIA2; GDID4; Ly-GDI; LYGDI; RAP1GN1; RhoGDI2

Protein Families:

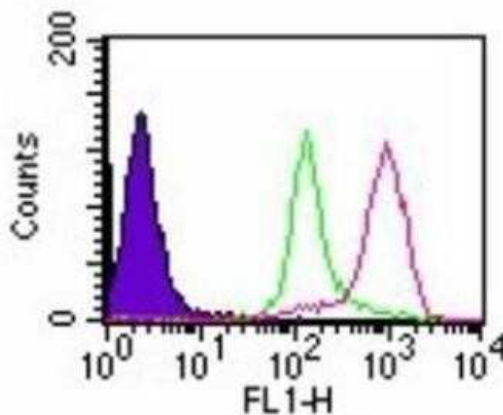
Druggable Genome

Protein Pathways:

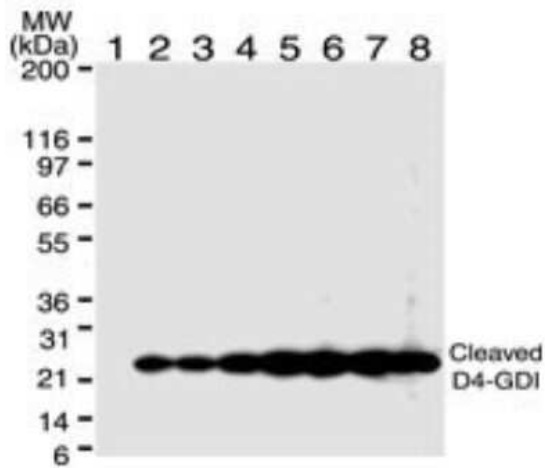
Neurotrophin signaling pathway

Product images:

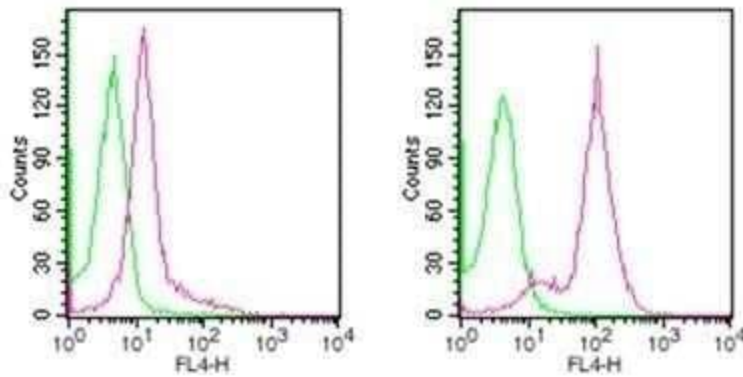
Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - Analysis using the FITC conjugate of TA336465. Staining of cleaved D4-GDI in untreated (left) and staurosporine-treated (right) Ramos cells using 0.5 ug of was used for this test.



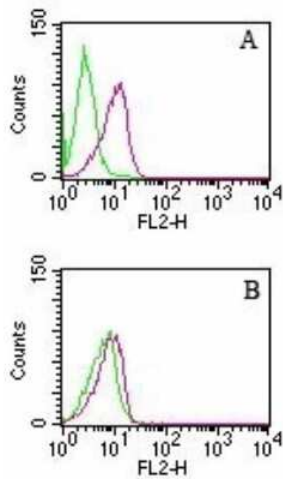
Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - Analysis using the FITC conjugate of TA336465. Staining of cleaved D4-GDI in 10^6 camptothecin-treated (red) and untreated (green) HL60 cells using 0.5 ug of NB100-56060. The shaded histogram represents cells without antibody.



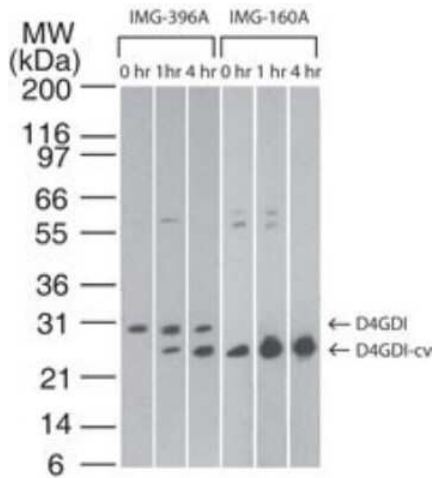
Western Blot: D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - WB analysis: HL60 cells were treated for different time periods with 10 ng/ml of anti-Fas mAb (TA336465, Clone DX2). Harvested cells were lysed and resolved by SDS-PAGE and transferred onto membrane. D4-GDI/RhoGDI2 cleavage was detected.



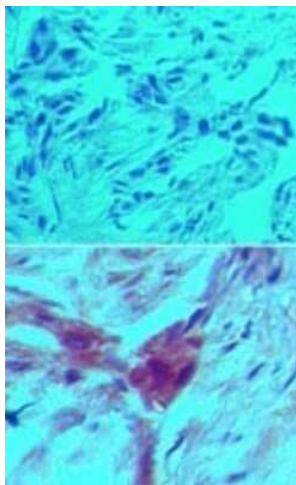
Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - Intracellular analysis of cleaved D4-GDI in 10^6 untreated (left) and 3 hour staurosporine-treated (right) Jurkat cells using 0.5 ug of this antibody was used for this test. Green histogram represents isotype control; red represents anti-D4-GDI antibody. Image using the Alexa Fluor 647 format of this antibody.



Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - HL60 cells were left untreated (green) or treated with camptothecin to induce apoptosis (red). Cells were analyzed by intracellular flow cytometry using either the (0.5 ug antibody/test/1 million cells) and ((as seen in B). this is because (cells not undergoing apoptosis) and cleaved (apoptotic cells) forms of D4-GDI.



Western Blot: D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - Western blot analysis of D4GDI in Jurkat cells using NB100-56556 (IMG-396A) at 2 ug/ml and TA336465 (IMG-160A) at 0.1 ug/ml. Cells were treated with 2 uM staurosporine for different time periods. NB100-56556 (IMG-396A) detects both the full-length and cleaved forms of D4GDI. While (TA336465) IMG-160A specifically detects only the cleaved form of the protein.



Immunohistochemistry-Paraffin: D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) TA336465 - analysis of D4GDI-cv in formalin-fixed, paraffin-embedded human breast tumor tissue using an isotype control (top) and this antibody.