

Product Datasheet

D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) - BSA Free NB100-56725

Unit Size: 0.1 mg

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

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NB100-56725

D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	97A1015
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	PBS

Product Description

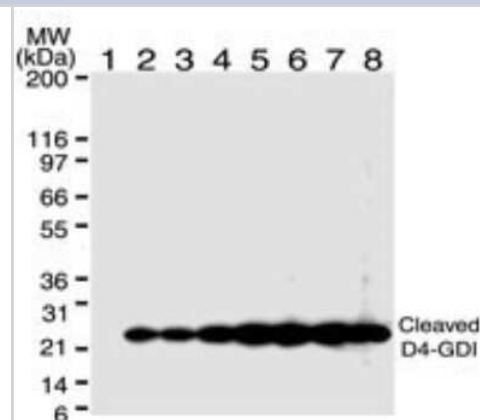
Description	Novus Biologicals Mouse D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) - BSA Free (NB100-56725) is a monoclonal antibody validated for use in IHC, WB, Flow and IP. Anti-D4-GDI/RhoGDI2 Antibody: Cited in 16 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	397
Gene Symbol	ARHGDIB
Species	Human, Mouse
Immunogen	A synthetic peptide corresponding to the region of the Fas-induced cleavage site of human D4-GDI/RhoGDI2 was used as the immunogen.

Product Application Details

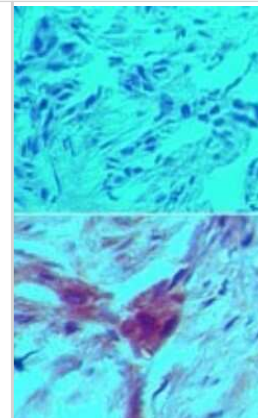
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 2 ug/ml, Flow Cytometry 0.5-1 ug/10 ⁶ cells, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1-2 ug/ml, Immunohistochemistry-Paraffin 1:10-1:500, Flow (Intracellular) 0.5-1 ug/10 ⁶ cells
Application Notes	In anti-Fas treated Jurkat, an approx. 23 kDa band should be observed.

Images

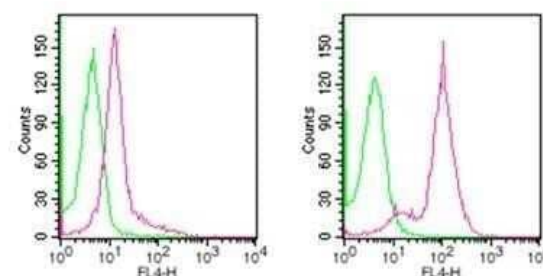
Western Blot: D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - WB analysis: HL60 cells were treated for different time periods with 10 ng/ml of anti-Fas mAb (NB100-56725, Clone DX2). Harvested cells were lysed and resolved by SDS-PAGE and transferred onto membrane. D4-GDI/RhoGDI2 cleavage was detected.



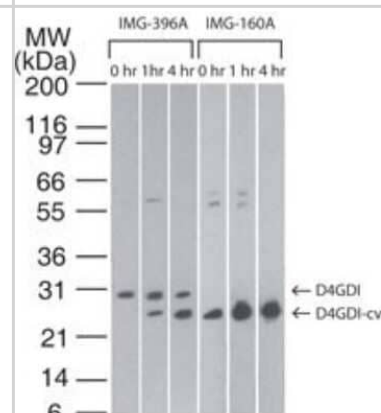
Immunohistochemistry-Paraffin: D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - analysis of D4GDI-cv in formalin-fixed, paraffin-embedded human breast tumor tissue using an isotype control (top) and this antibody.



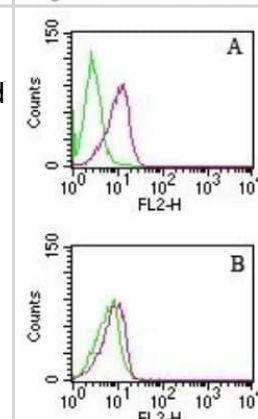
Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - Intracellular analysis of cleaved D4-GDI in 10^6 untreated (left) and 3 hour staurosporine-treated (right) Jurkat cells using 0.5 ug of this antibody was used for this test. Green histogram represents isotype control; red represents anti-D4-GDI antibody. Image using the Alexa Fluor 647 format of this antibody.



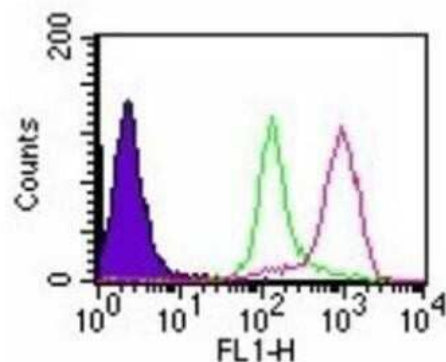
Western Blot: D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - Western blot analysis of D4GDI in Jurkat cells using NB100-56556 (IMG-396A) at 2 ug/ml and NB100-56725 (IMG-160A) at 0.1 ug/ml. Cells were treated with 2 uM staurosporine for different time periods. NB100-56556 (IMG-396A) detects both the full-length and cleaved forms of D4GDI. While (NB100-56725) IMG-160A specifically detects only the cleaved form of the protein.



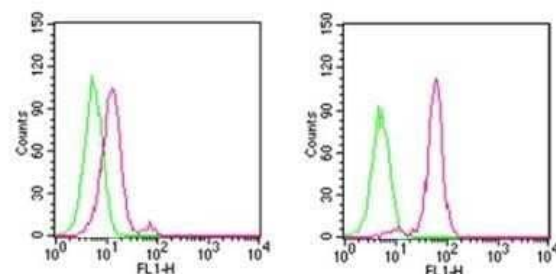
Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - HL60 cells were left untreated (green) or treated with camptothecin to induce apoptosis (red). Cells were analyzed by intracellular flow cytometry using either the (0.5 ug antibody/test/1 million cells) and ((as seen in B). this is because (cells not undergoing apoptosis) and cleaved (apoptotic cells) forms of D4-GDI.



Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - Analysis using the FITC conjugate of NB100-56725. 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.



Flow (Intracellular): D4-GDI/RhoGDI2 Antibody (97A1015) - (cleavage specific) [NB100-56725] - Analysis using the FITC conjugate of NB100-56725. Staining of cleaved D4-GDI in untreated (left) and staurosporine-treated (right) Ramos cells using 0.5 ug of was used for this test.



Publications

- Yamaguchi H, Wang HG. The protein kinase PKB/Akt regulates cell survival and apoptosis by inhibiting Bax conformational change. *Oncogene*. 2001-11-22 [PMID: 11753656]
- Chen YC, Shen SC, Lin HY. Rutinoside at C7 attenuates the apoptosis-inducing activity of flavonoids. *Biochem Pharmacol*. 2003-10-01 [PMID: 14505793]
- Gildea JJ, Seraj MJ, Oxford G et al. RhoGDI2 is an invasion and metastasis suppressor gene in human cancer. *Cancer Res*. 2002-11-15 [PMID: 12438227]
- Jenkins CE, Swiatoniowski A, Power MR, Lin TJ. *Pseudomonas aeruginosa*-induced human mast cell apoptosis is associated with up-regulation of endogenous Bcl-xS and down-regulation of Bcl-xL. *J Immunol*. 2006-12-01 [PMID: 17114473]
- Jenkins CE, Swiatoniowski A, Issekutz AC, Lin TJ. *Pseudomonas aeruginosa* exotoxin A induces human mast cell apoptosis by a caspase-8 and -3-dependent mechanism. *J Biol Chem*. 2004-08-27 [PMID: 15205454]
- Cuddeback SM, Yamaguchi H, Komatsu K et al. Molecular cloning and characterization of Bif-1. A novel Src homology 3 domain-containing protein that associates with Bax. *J Biol Chem*. 2001-06-08 [PMID: 11259440]
- Liu CY, Lee CF, Hong CH, Wei YH. Mitochondrial DNA mutation and depletion increase the susceptibility of human cells to apoptosis. *Ann N Y Acad Sci*. 2004-04-01 [PMID: 15126291]
- Sato S, Fujita N, Tsuruo T. Interference with PDK1-Akt survival signaling pathway by UCN-01 (7-hydroxystaurosporine). *Oncogene*. 2002-03-07 [PMID: 11896604]
- Ko CH, Shen SC, Chen YC. Hydroxylation at C4' or C6 is essential for apoptosis-inducing activity of flavanone through activation of the caspase-3 cascade and production of reactive oxygen species. *Free Radic Biol Med*. 2004-04-01 [PMID: 15019974]
- Yamaguchi H, Paranawithana SR, Lee MW et al. Epothilone B analogue (BMS-247550)-mediated cytotoxicity through induction of Bax conformational change in human breast cancer cells. *Cancer Res*. 2002-01-15 [PMID: 11809697]
- Chen YC, Shen SC, Lee WR et al. Emodin induces apoptosis in human promyeloleukemic HL-60 cells accompanied by activation of caspase 3 cascade but independent of reactive oxygen species production. *Biochem Pharmacol*. 2002-12-15 [PMID: 12445860]
- Okamoto M, Koga S, Tatsuka M. Differential regulation of caspase-9 by ionizing radiation- and UV-induced apoptotic pathways in thymic cells. *Mutat Res*. 2010-06-01 [PMID: 20346366] (WB, Mouse)
- Details:
D4-GDI (IMG-160A). WB: Mouse lymphoma 3SB cell line subject to either ionizing radiation or UV light, Fig 2D.
- More publications at <http://www.novusbio.com/NB100-56725>





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Products Related to NB100-56725

NBL1-07674	D4-GDI/RhoGDI2 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)

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