

Product Datasheet

GOLGA7 Antibody (2H8) - Azide and BSA Free H00051125-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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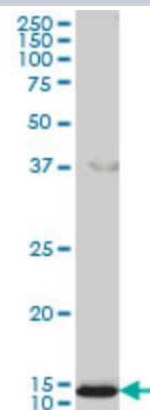
H00051125-M01

GOLGA7 Antibody (2H8) - Azide and BSA Free

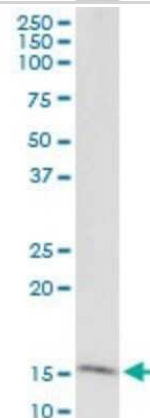
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2H8
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Novus Biologicals Mouse GOLGA7 Antibody (2H8) - Azide and BSA Free (H00051125-M01) is a monoclonal antibody validated for use in WB, ELISA, ICC/IF and IP. Anti-GOLGA7 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	51125
Gene Symbol	GOLGA7
Species	Human, Mouse
Specificity/Sensitivity	GOLGA7 - golgi autoantigen, golgin subfamily a, 7
Immunogen	GOLGA7 (AAH12032, 1 a.a. ~ 137 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MRPQQAPVSGKVFQIRDYSSGTRCQFQTKFPAELENRIDRQQFEETVRTLNLL YAEAEKLGGSYLEGCLACTAYTIFLCMETHYEKVLKKVSKYIQEQNEKIYAP QGLLLTDPIERGLRVIEITIYEDRGMSSGR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Application Notes	Antibody reactive against cell lysate and recombinant protein for western blot. It has also been used for ELISA.

Images

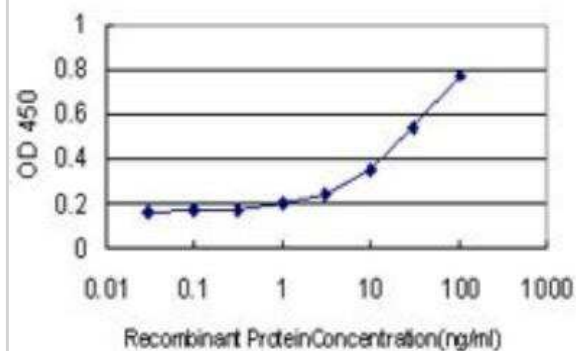
Western Blot: GOLGA7 Antibody (2H8) [H00051125-M01] - GOLGA7 monoclonal antibody (M01), clone 2H8 Analysis of GOLGA7 expression in HL-60.



Immunoprecipitation: GOLGA7 Antibody (2H8) [H00051125-M01] - Analysis of GOLGA7 transfected lysate using anti-GOLGA7 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with GOLGA7 monoclonal antibody.



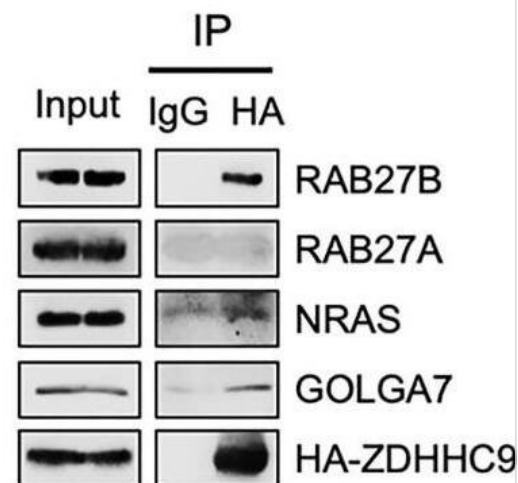
ELISA: GOLGA7 Antibody (2H8) [H00051125-M01] - Detection limit for recombinant GST tagged GOLGA7 is approximately 1 ng/ml as a capture antibody.



RAB27B binds to ZDHHC9 and regulates NRAS palmitoylation via ZDHHC9. (A) 293T cells were transfected with constructs to express tagged RAB27B, NRAS and ZDHHC9 as indicated. Cells were then subjected to IP followed by WB using the indicated antibodies. (B) TF-1 DKO cells stably expressing HA-ZDHHC9 were subjected to colP with anti-HA antibodies followed by WB analysis using the indicated antibodies to examine its interaction with endogenous proteins. (C) Schematic illustration of the hypothesis depicting how RAB27B regulates NRAS signaling (blue arrows) and how to restore NRAS signaling disrupted due to RAB27B loss (red arrows). (D–F) RAB27B-depleted TF-1 DKO cells stably expressing HA-ZDHHC9 or Myc-GOLGA7 were subjected to examination of palmitoylation status and cell growth. (D) WB to examine the efficiency of RAB27B KD or ZDHHC9 and GOLGA7 overexpression in TF-1 Ctrl and DKO cells. (E) APE assay to examine palmitoylation of endogenous RAS proteins. OE, overexpression; HAM, hydroxylamine; Palm, palmitoylated. (F) Cells were cultured in triplicate in different concentrations of human GM-CSF and cell growth after 3 days in culture was determined by MTT absorbance. Data are represented as mean \pm SD. **P < 0.01; ***P < 0.001 compared with the shRAB27B group, determined by 2-way ANOVA. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37317963>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

B

TF-1 DKO cells expressing
HA-ZDHHC9



Publications

Ko PJ, Woodrow C, Dubreuil MM et al. A ZDHHC5-GOLGA7 Protein Acyltransferase Complex Promotes Nonapoptotic Cell Death Cell Chem Biol 2019-10-17 [PMID: 31631010]

Ren JG, Xing B, Lv K et al. RAB27B controls palmitoylation-dependent NRAS trafficking and signaling in myeloid leukemia The Journal of clinical investigation 2023-06-15 [PMID: 37317963]

Karolina Kuodyt? The Golgi complex as a regulatory platform for DNA Damage Response pathways Thesis 2023-01-01 (IP, MS, Human)

Cuiffo B, Ren R. Palmitoylation of oncogenic NRAS is essential for leukemogenesis. Blood 115(17):3598-605. 2010-04-29 [PMID: 20200357]



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Products Related to H00051125-M01

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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