

Product Datasheet

Glucosylceramidase/GBA Antibody (2E2) - Azide and BSA Free H00002629-M01

Unit Size: 0.1 mg

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

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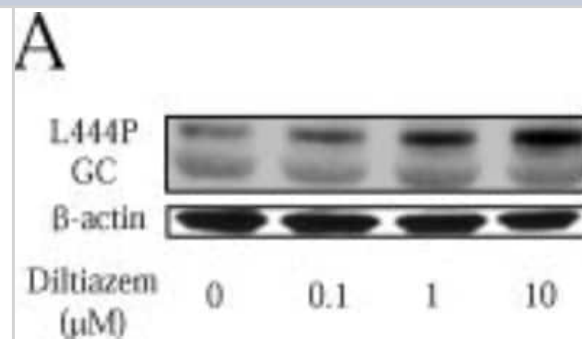
H00002629-M01

Glucosylceramidase/GBA Antibody (2E2) - Azide and BSA Free

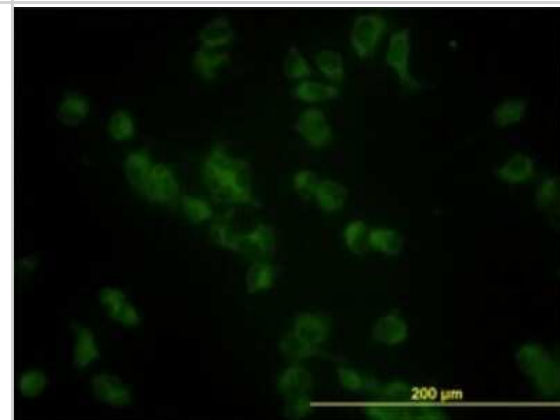
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2E2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	2629
Gene Symbol	GBA1
Species	Human, Plant
Reactivity Notes	Plant reactivity reported in scientific literature (PMID: 22592100).
Specificity/Sensitivity	GBA - glucosidase, beta; acid (includes glucosylceramidase)
Immunogen	GBA (NP_000148, 146 a.a. ~ 235 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. SYFSEEGIGYNIIRVPMASCDIFSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIH RALQLAQRPVSLASPWTSPTWLKTNGAVNGKGS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry 3ug/ml, Immunocytochemistry/ Immunofluorescence 10ug/ml, Immunoprecipitation, Immunohistochemistry-Paraffin 3ug/ml
Application Notes	Antibody reactivity against recominant protein, transfected lysate and cell lysate for WB. It has been used for IF, IHC-P and ELISA.

Images

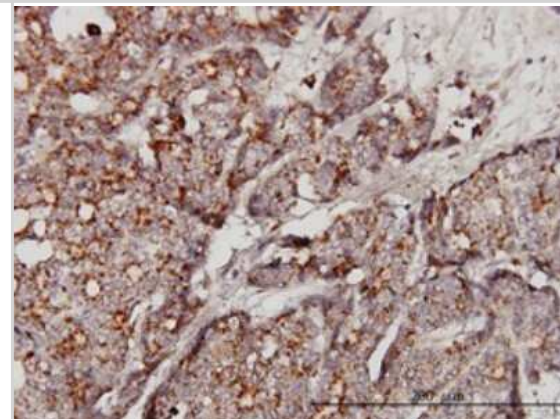
Western Blot: Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - Effect of Diltiazem on L444P and N370S/V394L GC Folding and Trafficking. Western blot analysis of untreated and diltiazem-treated L444P GC cells. L444P GC cells were cultured without or with diltiazem at varying concentrations for 7 d before the cells were lysed for SDS-PAGE and Western blot analysis. GC was detected using mouse anti-GC antibody 2E2. Beta-actin served as a loading control. Image collected and cropped by CiteAb from the following publication (<https://doi.org/10.1371/journal.pbio.0060026>) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - Analysis of monoclonal antibody to GBA on HeLa cell. Antibody concentration 10 ug/ml.



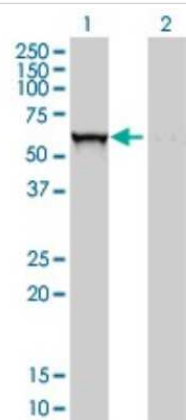
Immunohistochemistry-Paraffin: Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - Analysis of monoclonal antibody to GBA on formalin-fixed paraffin-embedded human breast cancer. Antibody concentration 3 ug/ml.



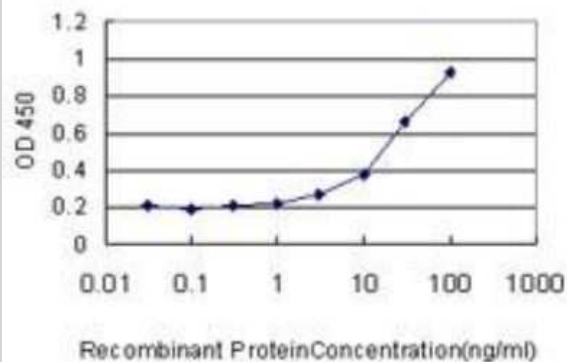
Western Blot: Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - GBA monoclonal antibody (M01), clone 2E2 Analysis of GBA expression in MCF-7.



Western Blot: Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - Analysis of GBA expression in transfected 293T cell line by GBA monoclonal antibody (M01), clone 2E2. Lane 1: GBA transfected lysate (60 KDa). Lane 2: Non-transfected lysate.



ELISA: Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - Glucosylceramidase/GBA Antibody (2E2) [H00002629-M01] - Detection limit for recombinant GST tagged GBA is approximately 1ng/ml as a capture antibody.



Publications

Jan Philipp Dobert, Simon Bub, Rebecca Mächtel, Dovile Januliene, Lisa Steger, Martin Regensburger, Sibylle Wilfling, Jia-Xuan Chen, Mario Dejung, Sonja Plötz, Ute Hehr, Arne Moeller, Philipp Arnold, Friederike Zunke
Activation and Purification of β -Glucocerebrosidase by Exploiting its Transporter LIMP-2 - Implications for Novel Treatment Strategies in Gaucher's and Parkinson's Disease. *Advanced science* (Weinheim, Baden-Wurtemberg, Germany) 2024-04-26 [PMID: 38666485]

Ting-Wei Mu, Douglas M Fowler, Jeffery W Kelly, Peter Walter Partial Restoration of Mutant Enzyme Homeostasis in Three Distinct Lysosomal Storage Disease Cell Lines by Altering Calcium Homeostasis *PLoS Biology* 2008-02-01 [PMID: 18254660]

Jung J, Choi H, Huy N et al. Production of recombinant human acid β -glucosidase with high mannose-type N-glycans in rice gnt1 mutant for potential treatment of Gaucher disease. *Protein Expr Purif.* 2019-02-27 [PMID: 30822514]

Atashrazm F, Hammond D, Perera G et al. Reduced glucocerebrosidase activity in monocytes from patients with Parkinson's disease. *Sci Rep.* 2018-10-18 [PMID: 30337601]

Bendikov-Bar I, Horowitz M. Gaucher disease paradigm: From ERAD to comorbidity. *Hum Mutat.* 2012-06-11 [PMID: 22623374]

Bendikov-Bar I, Rapaport D, Larisch S, Horowitz M. Parkin-mediated ubiquitination of mutant glucocerebrosidase leads to competition with its substrates PARIS and ARTS. *Orphanet J Rare Dis.* 2014-06-16 [PMID: 24935484]

Murphy Karen E, Gysbers Amanda M, Abbott Sarah K et al. Reduced glucocerebrosidase is associated with increased alpha-synuclein in sporadic Parkinson's disease. *Brain.* 2014-01-28 [PMID: 24477431] (WB, Human)

Gholamreza Babajani, Michael B Tropak, Don Mahuran, Allison R Kermode. Pharmacological chaperones facilitate the post-ER transport of recombinant N370S mutant β -glucocerebrosidase in plant cells: Evidence that N370S is a folding mutant, . *Molecular Genetics and Metabolism*, 10.1016/j.ymgme.04.018. 2012-01-01 [PMID: 22592100] (WB, Plant)

Campeau PM, Rafei M, Boivin MN et al. Characterization of Gaucher disease bone marrow mesenchymal stromal cells reveals an altered inflammatory secretome. *Blood.* 2009-10-08 [PMID: 19587377]

Bendikov-Bar I, Ron I, Filocamo M, Horowitz M. Characterization of the ERAD process of the L444P mutant glucocerebrosidase variant. *Blood Cells Mol Dis* 46(1):4-10. 2011-01-15 [PMID: 21106416]





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Products Related to H00002629-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-52148-0.05mg	Recombinant Human Glucosylceramidase/GBA His Protein

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