

Product Datasheet

Rheb Antibody (2C11) - Azide and BSA Free H00006009-M01

Unit Size: 0.1 mg

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

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H00006009-M01

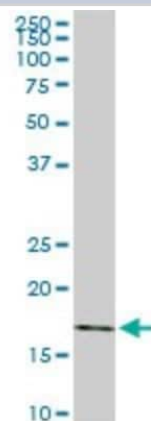
Rheb Antibody (2C11) - Azide and BSA Free

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	2C11
Preservative	No Preservative
Isotype	IgG1 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	6009
Gene Symbol	RHEB
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	RHEB - Ras homolog enriched in brain (2C11)
Immunogen	RHEB (AAH16155, 1 a.a. ~ 184 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MPQSKSRKIALGYRSVKGSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYH LQLVDTAGQDEYSIFPQTYSIDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQI PIMLVGNKKDLHMERSVISYEEGKALAESWNAAFLESSAKENQTAVDVFRRRIILE AEKMDGAASQKGSSCSVM
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for ELISA.

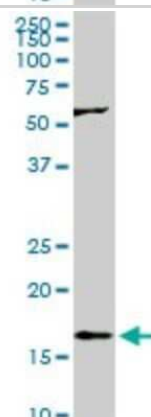


Images

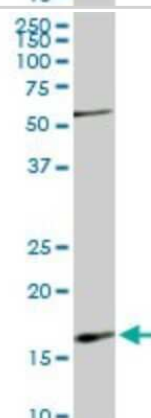
Western Blot: Rheb Antibody (2C11) [H00006009-M01] - RHEB monoclonal antibody (M01), clone 2C11. Analysis of RHEB expression in NIH/3T3.



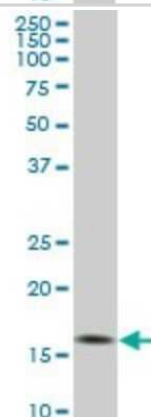
Western Blot: Rheb Antibody (2C11) [H00006009-M01] - RHEB monoclonal antibody (M01), clone 2C11. Analysis of RHEB expression in PC-12.



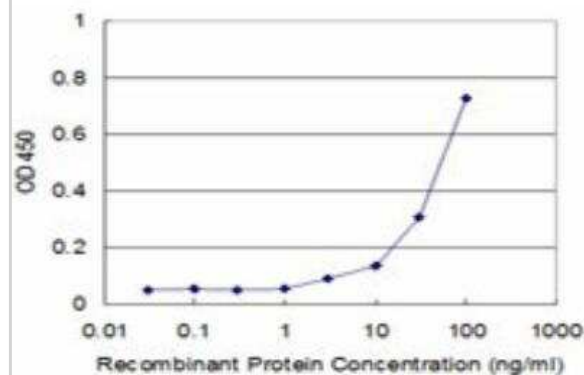
Western Blot: Rheb Antibody (2C11) [H00006009-M01] - RHEB monoclonal antibody (M01), clone 2C11. Analysis of RHEB expression in Raw 264.7.



Western Blot: Rheb Antibody (2C11) [H00006009-M01] - RHEB monoclonal antibody (M01), clone 2C11. Analysis of RHEB expression in Jurkat.



ELISA: Rheb Antibody (2C11) [H00006009-M01] - Detection limit for recombinant GST tagged RHEB is approximately 3ng/ml as a capture antibody.



Publications

Yao Y, Hong S, Ikeda T et al. Amino Acids Enhance Polyubiquitination of Rheb and Its Binding to mTORC1 by Blocking Lysosomal ATXN3 Deubiquitinase Activity *Molecular Cell* 2020-11-01 [PMID: 33157014] (Immunoprecipitation, Western Blot)

Yanghao Z, Xin Z, Kun-Liang G et al. Rheb regulates nuclear mTORC1 activity independent of farnesylation. *Cell Chem Biol.* 2022-03-15 [PMID: 35294906]

Jewell J, Fu V, Hong A et al. GPCR signaling inhibits mTORC1 via PKA phosphorylation of Raptor. *Elife.* 2019-05-21 [PMID: 31112131]

Gianluca F, Sandra M, Anna H et al. Brain-enriched RagB isoforms regulate the dynamics of mTORC1 activity through GATOR1 inhibition. *Nat Cell Biol.* 2022-09-12 [PMID: 36097071]

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Deng L, Chen L, Zhao L et al. Ubiquitination of Rheb governs growth factor-induced mTORC1 activation. *Cell Res* 2018-12-04 [PMID: 30514904]

Hoxhaj G, Hughes-Hallett J, Timson RC et al. The mTORC1 Signaling Network Senses Changes in Cellular Purine Nucleotide Levels. *Cell Rep* 2017-10-31 [PMID: 29091770]

Jacobs BL, McNally RM, Kim KJ et al. Identification of mechanically regulated phosphorylation sites on tuberlin (TSC2) that control mechanistic target of rapamycin (mTOR) signaling. *J Biol Chem* 2017-03-13 [PMID: 28289099]

Menon S, Dibble CC, Talbott G et al. Spatial Control of the TSC Complex Integrates Insulin and Nutrient Regulation of mTORC1 at the Lysosome. *Cell.* 2014-02-13 [PMID: 24529379]

Agarwal S, Bell CM, Taylor SM, Moran RG. p53 Deletion or Hot-spot Mutations Enhance mTORC1 Activity by Altering Lysosomal Dynamics of TSC2 and Rheb. *Mol Cancer Res.* 2015-09-18 [PMID: 26385560]



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Products Related to H00006009-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBC1-18435	Recombinant Human Rheb T7 Protein

Limitations

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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