

# Product Datasheet

## RGS2 Antibody (4C4) - Azide and BSA Free H00005997-M01

Unit Size: 0.1 mg

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

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**H00005997-M01**

RGS2 Antibody (4C4) - Azide and BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4C4
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4

**Product Description**

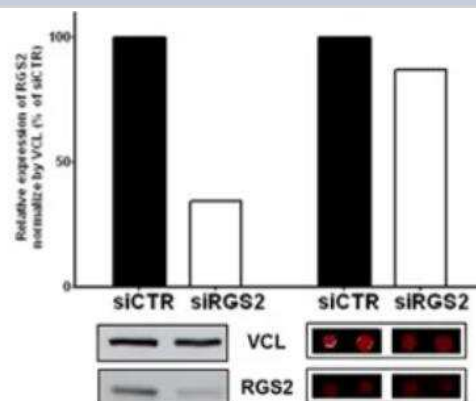
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	5997
<b>Gene Symbol</b>	RGS2
<b>Species</b>	Human, Mouse
<b>Specificity/Sensitivity</b>	RGS2 - regulator of G-protein signalling 2, 24kDa
<b>Immunogen</b>	RGS2 (AAH07049, 111 a.a. ~ 211 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. EFWLACEDFKKTKSPQKLSSKARKIYTDFIEKEAPKEINIDFQTKTLIAQNIQEAT SGCFTTAQKRVYSLMENNSYPRFLESEFYQDLCKKPQITTEPHAT
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.

**Product Application Details**

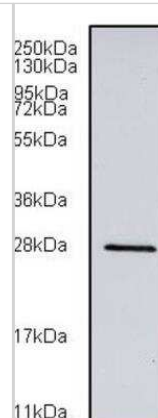
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
<b>Application Notes</b>	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IHC-P and ELISA.

**Images**

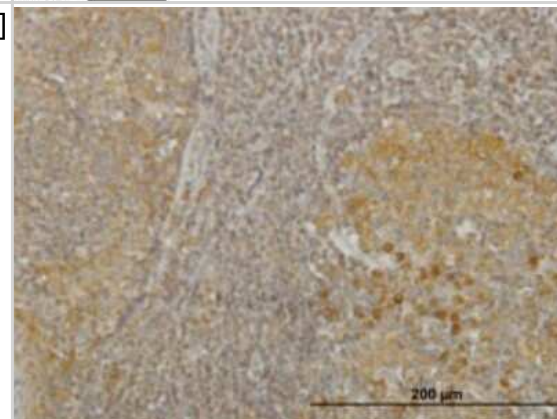
Western Blot: RGS2 Antibody (4C4) [H00005997-M01] - Knockdown efficiencies of target proteins in HEK293 cells measured by Reverse Phase Protein Array (RPPA) and Western blotting (WB). Level of expression by WB and RPPA of targeted proteins in HEK293 cells transfected with siRNA targeting proteins of interest or non-silencing siRNA control (siCTR). Specific bands for WB and spots corresponding to the dilution of the dynamic range in RPPA are presented. Image collected and cropped by CiteAb from the following publication (<https://rbej.biomedcentral.com/articles/10.1186/1477-7827-11-100>) licensed under a CC-BY license.



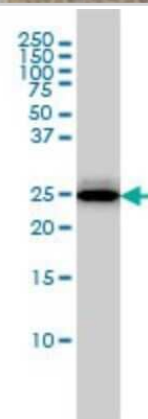
Western Blot: RGS2 Antibody (4C4) [H00005997-M01] - Specificity of antibodies. HEK293 cells lysates were analysed by Western blotting to test the specificity of antibodies. Image collected and cropped by CiteAb from the following publication (<https://rbej.biomedcentral.com/articles/10.1186/1477-7827-11-100>) licensed under a CC-BY license.



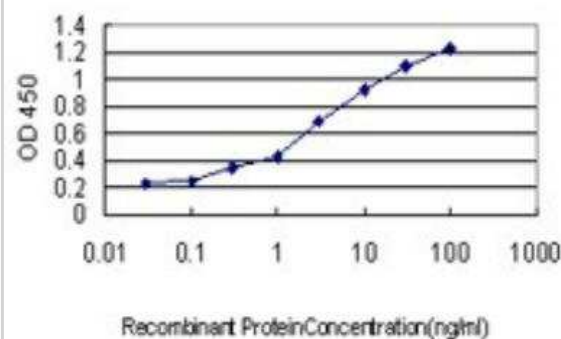
Immunohistochemistry-Paraffin: RGS2 Antibody (4C4) [H00005997-M01] - Analysis of monoclonal antibody to RGS2 on formalin-fixed paraffin-embedded human tonsil. Antibody concentration 3 ug/ml.



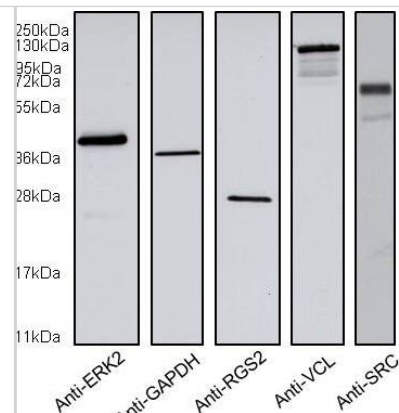
Western Blot: RGS2 Antibody (4C4) [H00005997-M01] - RGS2 monoclonal antibody (M01), clone 4C4 Analysis of RGS2 expression in MCF-7.



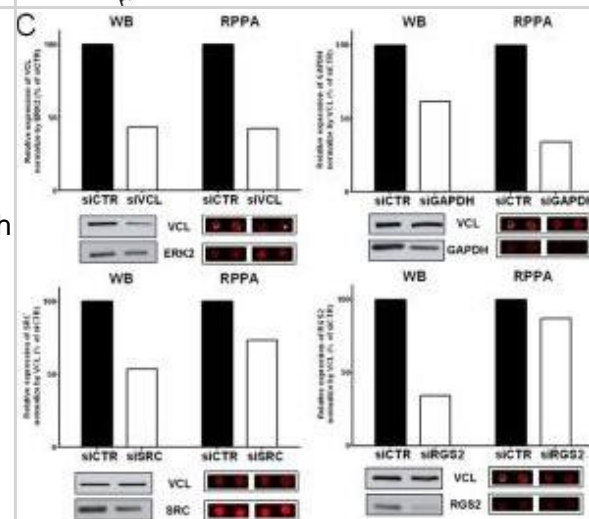
ELISA: RGS2 Antibody (4C4) [H00005997-M01] - Detection limit for recombinant GST tagged RGS2 is approximately 0.1ng/ml as a capture antibody.



Western Blot: RGS2 Antibody (4C4) [H00005997-M01] - Specificity of antibodies. HEK293 cells lysates were analysed by Western blotting to test the specificity of antibodies. Image collected & cropped by CiteAb from the following publication (<http://rbej.biomedcentral.com/articles/10.1186/1477-7827-11-100>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: RGS2 Antibody (4C4) [H00005997-M01] - Knockdown efficiencies of target proteins in HEK293 cells measured by Reverse Phase Protein Array (RPPA) & Western blotting (WB). A. Detection by RPPA of VCL & ERK2 in serial dilution of HEK293 cells transfected with siRNA targeting VCL (siVCL) or non-silencing siRNA control (siCTR). B. Linear regression was performed for ERK2 & VCL protein & Pearson correlation between dilution & the signal intensity was calculated for each condition of Figure 3A, with all p-values lower than 0.001. Signal intensities are expressed as mean of the replicates. C. Level of expression by WB & RPPA of targeted proteins in HEK293 cells transfected with siRNA targeting proteins of interest or non-silencing siRNA control (siCTR). Specific bands for WB & spots corresponding to the dilution of the dynamic range in RPPA are presented. Image collected & cropped by CiteAb from the following publication (<http://rbej.biomedcentral.com/articles/10.1186/1477-7827-11-100>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Anna L, Karin L, Karin W et al. RGS2 Is Prognostic for Development of Castration Resistance and Cancer-Specific Survival in Castration-Resistant Prostate Cancer. *Prostate*. 2020-05-25 [PMID: 32449815]

Linder A, Hagberg Thulin M, Damber JE, Welen K et al. Analysis of regulator of G-protein signalling 2 (RGS2) expression and function during prostate cancer progression. *Sci Rep*. 2018-11-22 [PMID: 30467386]

Yeh HY, Sun D, Peng YC et al. Regulation of the regulator of G protein signaling 2 expression and cellular localization by PKA and PKC pathways in mouse granulosa cells. *Biochem Biophys Res Commun* 2018-06-21 [PMID: 29932914]

Hoemme C, Peerzada A, Behre G et al. Chromatin modifications induced by PML-RAR{alpha} repress critical targets in leukemogenesis as analyzed by ChIP-Chip. *Blood*. 2007-11-16 [PMID: 18024792]

Lee HK, Park DW, Bae JH et al. RGS2 is a negative regulator of STAT3-mediated Nox1 expression. *Cell Signal*. 2011-11-18 [PMID: 22120521]

Park DW, Lyu JH, Kim JS et al. Role of JAK2-STAT3 in TLR2-mediated tissue factor expression. *J Cell Biochem*. 2012-12-13 [PMID: 23238822]

Puard V, Tranchant T, Cadoret V et al. Semi-quantitative measurement of specific proteins in human cumulus cells using reverse phase protein array. *Reprod Biol Endocrinol*. 2013-01-01 [PMID: 24148967] (WB, Human)



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### **Products Related to H00005997-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)
NB100-56736PEP	RGS2 Antibody Blocking Peptide

### **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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