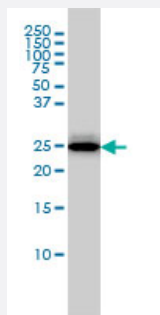


RGS2 monoclonal antibody (M01), clone 4C4

Catalog # H00005997-M01

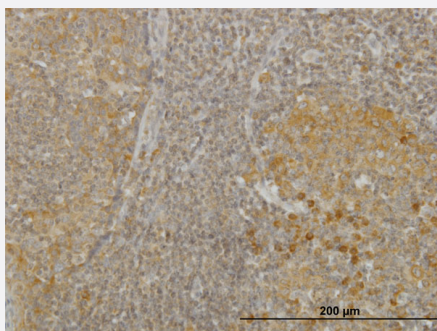
Size 100 ug

Applications



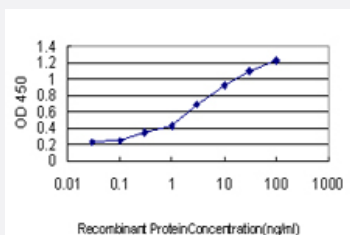
Western Blot (Cell lysate)

RGS2 monoclonal antibody (M01), clone 4C4 Western Blot analysis of RGS2 expression in MCF-7 (Cat # L046V1).



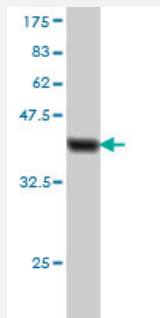
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to RGS2 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RGS2 is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant RGS2.
Immunogen	RGS2 (AAH07049, 111 a.a. ~ 211 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EFWLACEDFKKTKSPQKLSSKARKIYTDIEKEAPKEINIDFQTKTLIAQNIQEATSGCFTTAQKRVY SLMENNSYPRFLESEFYQDLCKKPQITTEPHAT
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

RGS2 monoclonal antibody (M01), clone 4C4 Western Blot analysis of RGS2 expression in MCF-7 (Cat # L046V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to RGS2 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RGS2 is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — RGS2

Entrez GeneID [5997](#)

GeneBank Accession# [BC007049](#)

Protein Accession# [AAH07049](#)

Gene Name RGS2

Gene Alias G0S8

Gene Description regulator of G-protein signaling 2, 24kDa

Omim ID [600861](#)

Gene Ontology [Hyperlink](#)

Gene Summary Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 2 belongs to this family. The protein acts as a mediator of myeloid differentiation and may play a role in leukemogenesis. [provided by RefSeq]

Other Designations G0 to G1 switch regulatory 8, 24kD|OTTHUMP00000033592|OTTHUMP00000060765|cell growth-inhibiting protein 31|regulator of G-protein signalling 2, 24kD|regulator of G-protein signalling 2, 24kDa

Publication Reference

- [RGS2 Is Prognostic for Development of Castration Resistance and Cancer-Specific Survival in Castration-Resistant Prostate Cancer.](#)

Anna Linder, Karin Larsson, Karin Welén, Jan-Erik Damber.

Prostate 2020 Aug; 80(11):799.

Application: WB-Ti, WB-Tr, Human, Orthotopic tumors of LNCaP cells

- [Analysis of regulator of G-protein signalling 2 \(RGS2\) expression and function during prostate cancer progression.](#)

Linder A, Hagberg Thulin M, Damber JE, Welén K.

Scientific Reports 2018 Nov; 8(1):17259.

Application: WB, Human, LNCaP cells

- [Regulation of the regulator of G protein signaling 2 expression and cellular localization by PKA and PKC pathways in mouse granulosa cells.](#)

Yeh HY, Sun D, Peng YC, Wu YL.

Biochemical and Biophysical Research Communications 2018 Sep; 503(2):950.

Application: WB-Ce, Mouse, NT-1 cells

- [Semi-quantitative measurement of specific proteins in human cumulus cells using reverse phase protein array.](#)

Puard V, Tranchant T, Cadoret V, Gauthier C, Reiter E, Guerif F, Royere D.

Reproductive Biology and Endocrinology 2013 Oct; 11(1):100.

Application: WB-Ce, WB-Tr, Human, HEK 293 cells

- [Role of JAK2-STAT3 in TLR2-mediated tissue factor expression.](#)

Park DW, Lyu JH, Kim JS, Chin H, Bae YS, Baek SH.

Journal of Cellular Biochemistry 2013 Jun; 114(6):1315.

Application: WB, Mouse, Raw264.7

- [RGS2 is a negative regulator of STAT3-mediated Nox1 expression.](#)

Lee HK, Park DW, Bae JH, Kim HJ, Shin DG, Park JS, Lee JG, Lee SJ, Bae YS, Baek SH.

Cellular Signalling 2012 Mar; 24(3):803.

Application: WB-Tr, Mouse, Raw264.7 cells

- [Chromatin modifications induced by PML-RAR{alpha} repress critical targets in leukemogenesis as analyzed by ChIP-Chip.](#)

Hoemme C, Peerzada A, Behre G, Wang Y, McClelland M, Nieselt K, Zschunke M, Disselhoff C, Agrawal S, Isken F, Tidow N, Berdel WE, Serve H, Muller-Tidow C.

Blood 2007 Nov; 111(5):2887.

Application: WB, Human, U937 cells

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- [Anorexia Nervosa](#)
- [Anxiety Disorders](#)
- [Atherosclerosis](#)
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