Product Datasheet

IQGAP1 Antibody (2C5) - Azide and BSA Free
H00008826-M01

Unit Size: 0.1 mg

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

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Publications: 5

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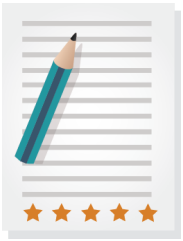
Updated 2/21/2025 v.20.1



H00008826-M01

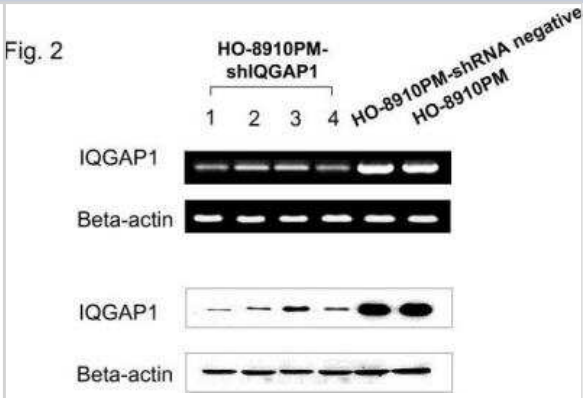
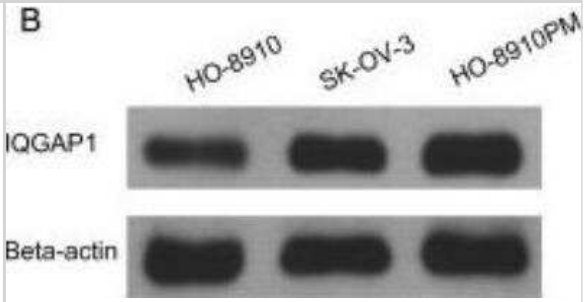
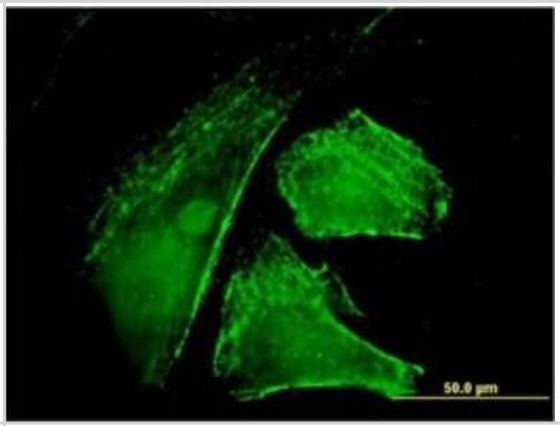
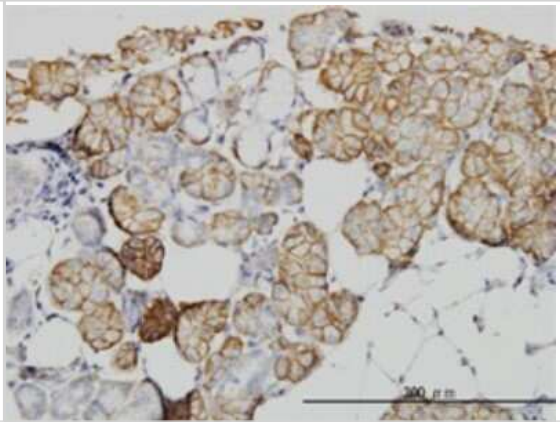
IQGAP1 Antibody (2C5) - Azide and BSA Free

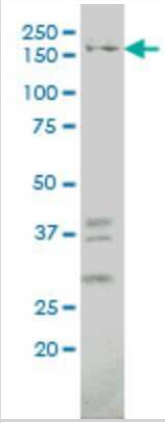
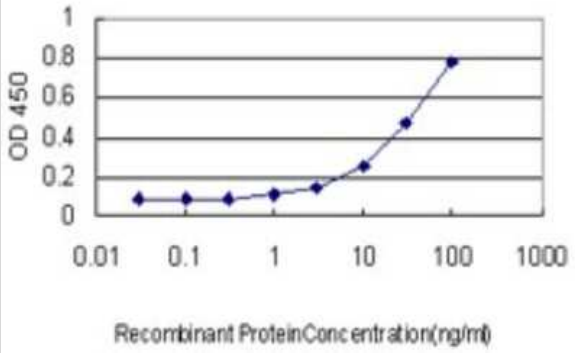
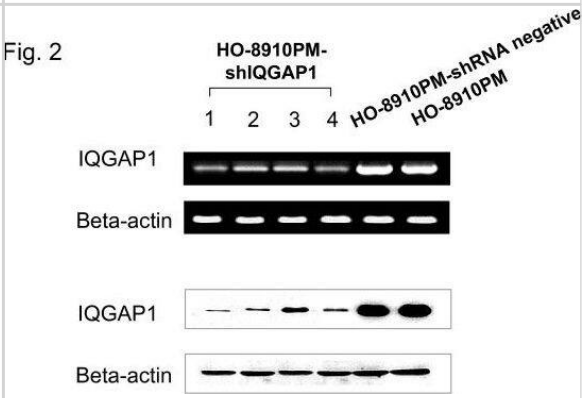
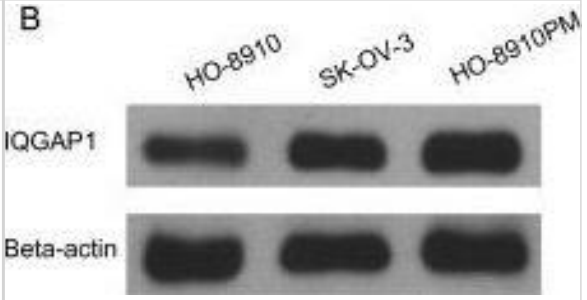
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2C5
Preservative	No Preservative
Isotype	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	8826
Gene Symbol	IQGAP1
Species	Human
Specificity/Sensitivity	IQGAP1 - IQ motif containing GTPase activating protein 1
Immunogen	IQGAP1 (NP_003861, 611 a.a. ~ 710 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. WQSNKDTQEAQKFALGIFAINEAVESGDVGKTLSALRSPDVGLYGVIPECGETY HSDLAEAKKKKLAVGDNNSKWVKHWVKGGYYYYHNLETQEGGWDEP
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

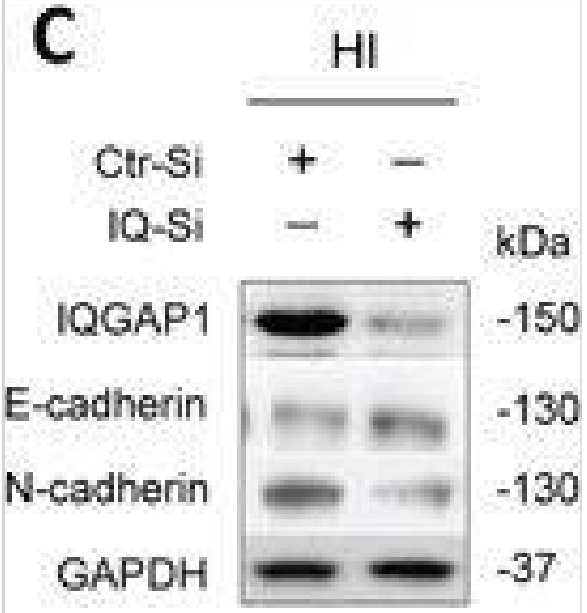
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, Knockdown Validated
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Sandwich ELISA, Knockdown Validated
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF, IHC-P and ELISA. Use in Immunohistochemistry reported in scientific literature (PMID: 19706805).

Images

Western Blot: IQGAP1 Antibody (2C5) [H00008826-M01] - IQGAP1 mRNA and protein levels in HO-8910PM-shIQGAP1, HO-8910PM-shRNA negative and un-transfected HO-8910PM cells were determined by RT-PCR and Western blot analysis, respectively. Image collected and cropped by CiteAb from the following publication (jeccr.biomedcentral.com/articles/10.1186/1756-9966-27-77), licensed under a CC-BY license.	
Western Blot: IQGAP1 Antibody (2C5) [H00008826-M01] - Western blot analysis for IQGAP1 in whole-cell lysates from the indicated cell lines. Image collected and cropped by CiteAb from the following publication (jeccr.biomedcentral.com/articles/10.1186/1756-9966-27-77), licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: IQGAP1 Antibody (2C5) [H00008826-M01] - Analysis of monoclonal antibody to IQGAP1 on HeLa cell. Antibody concentration 10 ug/ml.	
Immunohistochemistry-Paraffin: IQGAP1 Antibody (2C5) [H00008826-M01] - Analysis of monoclonal antibody to IQGAP1 on formalin-fixed paraffin-embedded human salivary gland. Antibody concentration 1 ug/ml.	

Western Blot: IQGAP1 Antibody (2C5) [H00008826-M01] - IQGAP1 monoclonal antibody (M01), clone 2C5 Analysis of IQGAP1 expression in C32.	
Sandwich ELISA: IQGAP1 Antibody (2C5) [H00008826-M01] - Detection limit for recombinant GST tagged IQGAP1 is approximately 3ng/ml as a capture antibody.	
Western Blot: IQGAP1 Antibody (2C5) [H00008826-M01] - indicates that IQGAP1 mRNA & protein levels in HO-8910PM-shIQGAP1, HO-8910PM-shRNA negative & un-transfected HO-8910PM cells were determined by RT-PCR & Western blot analysis, respectively. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/19036171), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Western Blot: IQGAP1 Antibody (2C5) [H00008826-M01] - shows that IQGAP1 expression & cell invasive phenotype in ovarian cancer cell lines. (a) RT-PCR analysis for IQGAP1 using total RNA form HO-8910, SK-OV-3 & HO-8910PM cells. (b) Western blot analysis for IQGAP1 in whole-cell lysates from the indicated cell lines. (c) High IQGAP1 expression associated with enhanced invasive potential of ovarian cancer cells. HO-8910, SK-OV-3 & HO-8910PM cells were seeded onto a Matrigel-coated invasion chamber & the number of invading cells was determined as described before. *, P < 0.05 versus SK-OV-3 or HO-8910 cells. (d) High IQGAP1 expression correlated with enhanced migratory potential of ovarian cancer cells. HO-8910, SK-OV-3 & HO-8910PM cells were seeded onto a Boyden chamber & the number of migrating cells was determined as described before. *, P < 0.05 versus SK-OV-3 or HO-8910 cells. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/19036171), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Western Blot: IQGAP1 Antibody (2C5) [H00008826-M01] - IQGAP1 induces the epithelial-to-mesenchymal transition, invasiveness, & proliferation of endometrial cancer (EC) cellsA. Reverse transcription quantitative PCR (qPCR) analysis of IQGAP1 mRNA in the immortalized human endometrial cell line EM & the EC cells HEC-1, HEC-50, & HEC-50-HI (HI). The results are presented as the fold-change in expression compared to the EM cells. B. Western blot analysis of the IQGAP1 protein in EC cells. C, E. The expression of IQGAP1, E-cadherin, & N-cadherin proteins in HI cells transfected with control (Ctr) or IQGAP1 siRNA (C) & in HEC-1 cells expressing either the control or IQGAP1 vector (E). D, F. Phase-contrast microscopy shows the morphology of HI cells transfected with control or IQGAP1 siRNA (D) & HEC-1 cells transfected with the control or IQGAP1 vector (F). G-I. Detection of migration (G), invasion (H), & proliferation (I) in HI & HEC-1 cells after the indicated transfection. J, K. qPCR analysis of ZO-1, CK-18, & Vimentin expression in HI (J) & HEC-1 (K) cells, transfected as indicated. L. Representative images from the invasion assays. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.7754), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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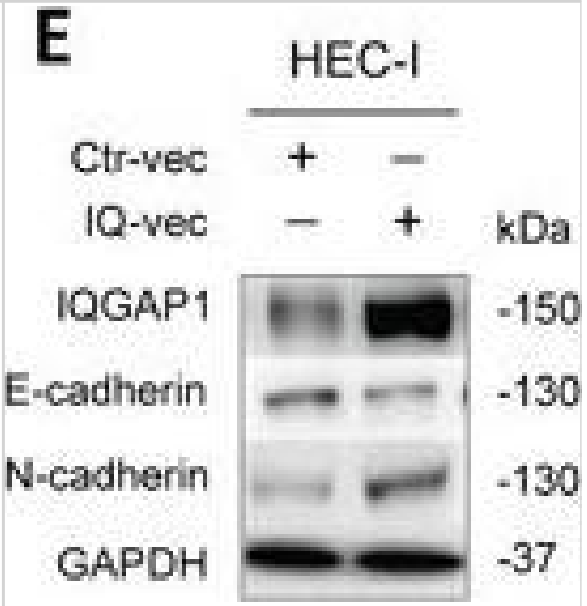

Publications

Xinyu B, Dongmin S, Kailin X et al. AMD1 upregulates hepatocellular carcinoma cells stemness by FTO mediated mRNA demethylation. Clin Transl Med. 2021-03-15 [PMID: 33783988]

Halbert D, Domenyuk V, Spetzler D et al. Aptamers and uses thereof United States Patent Application US 9958448 B2 2018-01-01

Dong P, Ihira K, Xiong Y et al. Reactivation of epigenetically silenced miR-124 reverses the epithelial-to-mesenchymal transition and inhibits invasion in endometrial cancer cells via the direct repression of IQGAP1 expression. Oncotarget. 2016-04-12 [PMID: 26934121] (WB, Human)

Hu H, Sun L, Guo C et al. Tumor cell-microenvironment interaction models coupled with clinical validation reveal CCL2 and SNCG as two predictors of colorectal cancer hepatic metastasis. Clin Cancer Res 2009-09-01 [PMID: 19706805] (IF/IHC)

Dong PX, Jia N, Xu ZJ et al. Silencing of IQGAP1 by shRNA inhibits the invasion of ovarian carcinoma HO-8910PM cells in vitro. J Exp Clin Cancer Res 27:77. 2008-11-27 [PMID: 19036171]

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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)
H00008826-Q01-10ug	Recombinant Human IQGAP1 GST (N-Term) Protein

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