

Product Datasheet

AG-2/AGR2 Antibody - Azide and BSA Free NBP2-27392

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 8

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NBP2-27392

AG-2/AGR2 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

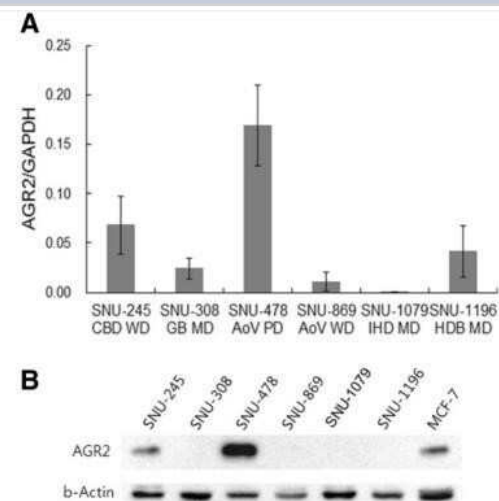
Product Description	
Description	Novus Biologicals Rabbit AG-2/AGR2 Antibody - Azide and BSA Free (NBP2-27392) is a polyclonal antibody validated for use in IHC, WB, Simple Western and IP. Anti-AG-2/AGR2 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10551
Gene Symbol	AGR2
Species	Human, Mouse
Specificity/Sensitivity	Researchers are encouraged to use the sequence and accession number (NP_006399.1) that were used to design the peptide immunogen in order to assess potential cross-reactivity of the antibody to their species of interest. The AGR2 antibody is specific to AGR2 and does not recognize AGR3 (Verma et al, 2012)
Immunogen	This antibody was developed against synthetic peptides corresponding to amino acids 55-72 of human AGR2.

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:100, Simple Western 1:100, Immunohistochemistry, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:10-1:500~, Knockdown Validated
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in MCF-7 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:100, apparent MW was 27 kDa.

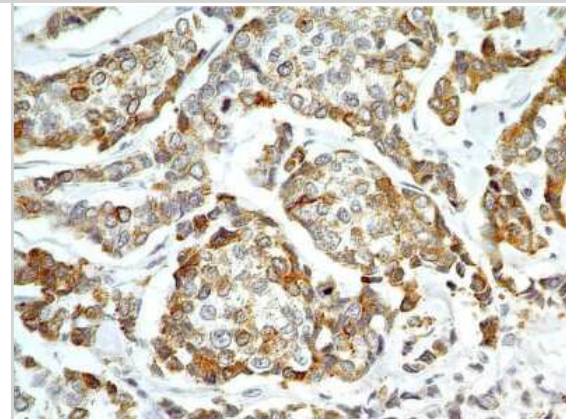


Images

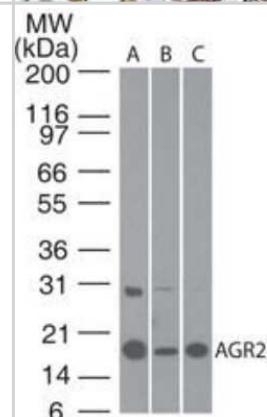
Western Blot: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - AGR2 expression in cancer cell lines of the biliary tract. AGR2 mRNA levels in six biliary tract cancer cell lines were measured by real-time RT-PCR. The AGR2 transcript levels were normalized against those of the GAPDH. Results shown are means \pm standard deviations of (1/2)CT of target - CT of GAPDH of three experiments. B. AGR2 protein expression was detected by western blot analysis with beta-actin as a loading control. The result shown is a representative of three experiments. Abbreviations: CBD, common bile duct; GB, gall bladder; AoV, ampulla of Vater; IHD, intrahepatic duct; HDB, hepatic duct bifurcation; WD, well differentiated; MD, moderately differentiated; PD, poorly differentiated [24]. Image collected and cropped by CiteAb from the following publication (<https://bmccancer.biomedcentral.com/articles/10.1186/1471-2407-14-804>), licensed under a CC-BY license. Image using the standard format of this product.



Immunohistochemistry-Paraffin: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - Formalin-fixed, paraffin-embedded human adenocarcinoma of the breast stained with AGR2 antibody (2 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



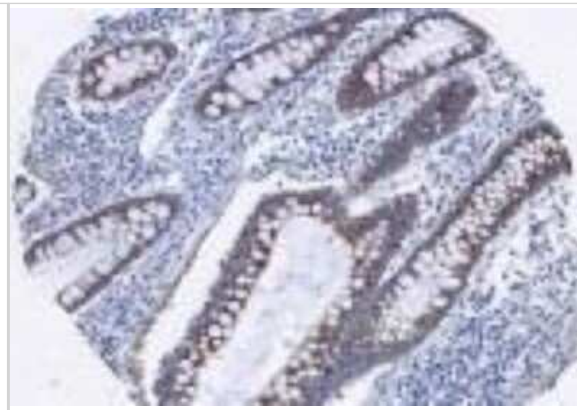
Western Blot: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - Analysis of AGR2 using AGR2 antibody. MCF7 (A), Caco-2 (B) and human stomach lysate (C) probed with AGR2 antibody at 1:100. were used for this test. The higher molecular weight band of variable intensity at ~30 kDa is uncharacterized and may represent a form of AGR2.



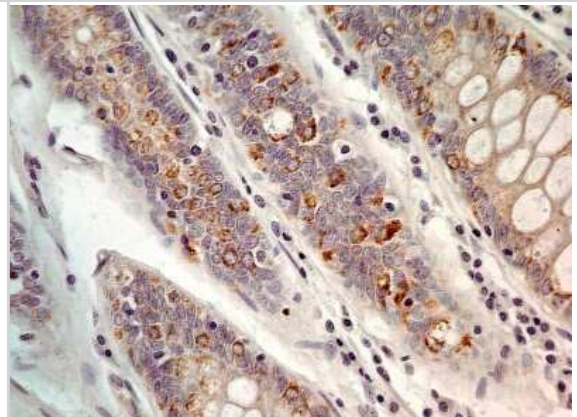
Western Blot: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - Alterations of tumor-associated phenotypes in AG-2-silenced SNU-478 cells. AG-2 protein expression in SNU-478:VEC and SNU-478:KDs was detected by western blot analysis with beta-actin as a loading control. The result shown is a representative of three experiments. Image collected and cropped by CiteAb from the following publication (<https://bmccancer.biomedcentral.com/articles/10.1186/1471-2407-14-804>), licensed under a CC-BY license. Image using the standard format of this product.



Immunohistochemistry-Paraffin: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - Staining of AGR2 using AGR2 antibody. Formalin-fixed, paraffin-embedded normal colon tissue probed with AGR2 antibody at 1:100 dilution.



Immunohistochemistry-Paraffin: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - Formalin-fixed, paraffin-embedded human adenocarcinoma of the colon stained with AGR2 antibody (2-5 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Simple Western: AG-2/AGR2 Antibody - Azide Free [NBP2-27392] - Simple Western lane view shows a specific band for AGR2 in 0.5 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Park SW, Zhen G, Verhaeghe C et al. The protein disulfide isomerase AGR2 is essential for production of intestinal mucus. *Proc Natl Acad Sci U S A*. 2009-04-28 [PMID: 19359471]

Details:

1. IHC (frozen): Mouse intestinal villi and colon mucous granules, Fig 1 & B. 2. IHC (paraffin): The specificity of the antibody was confirmed by IHC (p) in AGR2 wildtype and knock out mice. Staining was seen in AGR2 +/- but not AGR2 -/- mice, Fig 2A-2D. 3.

Verma S, Salmans ML, Geyfman M et al. The estrogen-responsive *Agr2* gene regulates mammary epithelial proliferation and facilitates lobuloalveolar development. *Dev Biol*. 2012-09-15 [PMID: 22819674]

Details:

Product Cited: AGR2 (IMG-5279A). 1. WB: Recombinant AGR2 and AGR3, Fig S1. The AGR2 antibody recognized recombinant AGR2 but not recombinant AGR3. 2. IHC (paraffin): Wildtype (WT), transgenic AGR2 and knockout AGR2 Mouse mammary glands, Figs 1B, 2B, 4D. N

Wang Z, Hao Y, Lowe AW. The adenocarcinoma-associated antigen, AGR2, promotes tumor growth, cell migration, and cellular transformation. *Cancer Res*. 2008-01-15 [PMID: 18199544]

Details:

IHC (paraffin): mouse intestine tissue, Fig 3C.

Chen G, Korfhagen TR, Xu Y et al. SPDEF is required for mouse pulmonary goblet cell differentiation and regulates a network of genes associated with mucus production. *J Clin Invest*. 2009-10-01 [PMID: 19759516]

Details:

IHC (paraffin): transgenic mouse lung tissue, Fig 4B, C.

Chang J, Chance MR, Nicholas C et al. Proteomic changes during intestinal cell maturation in vivo. *J Proteomics*. 2008-12-02 [PMID: 18824147]

Details:

IHC (paraffin): mouse intestine tissue, Fig 5.

Gupta A, Wodziak D, Tun M et al. Loss of anterior gradient 2 (*Agr2*) expression results in hyperplasia and defective lineage maturation in the murine stomach. *J Biol Chem*. 2013-02-08 [PMID: 23209296]

Details:

Product Cited: AGR2 (IMG-5279A). IHC (paraffin) in stomach from WT mice and a mouse model consisting of both constitutive and inducible conditional AGR2 null mice: Figs 2C, 3, 4, 6C&D, 7D. Note: The specificity of the AGR2 was validated by IHC (paraffin)

Sitek B, Sipos B, Alkatout I et al. Analysis of the pancreatic tumor progression by a quantitative proteomic approach and immunohistochemical validation. *J Proteome Res*. 2009-04-01 [PMID: 19714807]

Details:

IHC (paraffin): Normal human epithelium, PanIN (pancreatic intraepithelial neoplasia) lesions, carcinoma, and pancreatitis, Fig 2.

Norris AM, Gore A, Balboni A et al. AGR2 is a SMAD4-suppressible gene that modulates MUC1 levels and promotes the initiation and progression of pancreatic intraepithelial neoplasia. *Oncogene*. 2013-08-15 [PMID: 22945649]

Details:

The IMG-5279A AGR2 was used for multiple techniques in a mouse model of pancreatic ductal adenocarcinoma where AGR2 was evaluated as a putative oncogene. Techniques in the publication include WB, IP, IF and IHC. See publication and supplementary data for a



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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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