

**Anterior Gradient 2 (AGR2) Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6279a****Specification**

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**Anterior Gradient 2 (AGR2) Antibody (N-term) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">O95994</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	19979
Antigen Region	13-42

**Anterior Gradient 2 (AGR2) Antibody (N-term) - Additional Information****Gene ID** 10551**Other Names**

Anterior gradient protein 2 homolog, AG-2, hAG-2, HPC8, Secreted cement gland protein XAG-2 homolog, AGR2, AG2

**Target/Specificity**

This Anterior Gradient 2 (AGR2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-42 amino acids from the N-terminal region of human Anterior Gradient 2 (AGR2).

**Dilution**IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anterior Gradient 2 (AGR2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anterior Gradient 2 (AGR2) Antibody (N-term) - Protein Information****Name** AGR2

## Synonyms AG2

**Function** Required for MUC2 post-transcriptional synthesis and secretion. May play a role in the production of mucus by intestinal cells (By similarity). Proto-oncogene that may play a role in cell migration, cell differentiation and cell growth. Promotes cell adhesion (PubMed:[23274113](#)).

## Cellular Location

Secreted. Endoplasmic reticulum {ECO:0000250|UniProtKB:O88312}

## Tissue Location

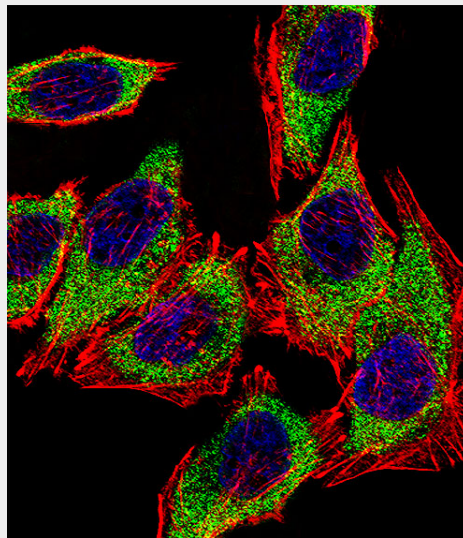
Expressed strongly in trachea, lung, stomach, colon, prostate and small intestine. Expressed weakly in pituitary gland, salivary gland, mammary gland, bladder, appendix, ovary, fetal lung, uterus, pancreas, kidney, fetal kidney, testis, placenta, thyroid gland and in estrogen receptor (ER)-positive breast cancer cell lines

## Anterior Gradient 2 (AGR2) Antibody (N-term) - Protocols

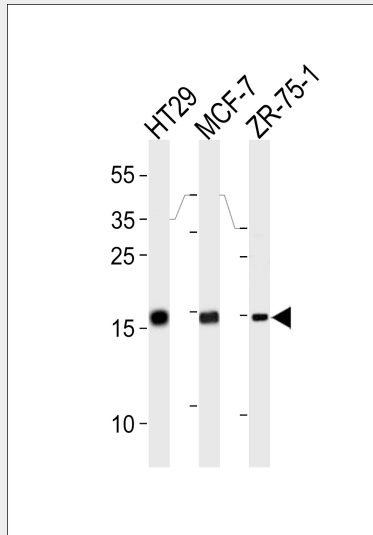
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

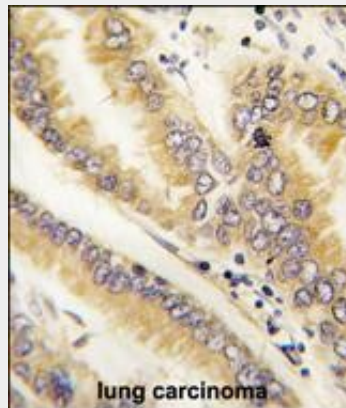
## Anterior Gradient 2 (AGR2) Antibody (N-term) - Images



Fluorescent confocal image of A549 cell stained with AGR2 Antibody (N-term)(Cat#AP6279a).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with AGR2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). AGR2 immunoreactivity is localized to Cytoplasm significantly.



AGR2 Antibody (N-term) (Cat. #AP6279a) western blot analysis in HT29, MCF-7, ZR-75-1 cell line lysates (35ug/lane). This demonstrates the AGR2 antibody detected the AGR2 protein (arrow).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with AGR2 antibody (N-term) (Cat. #AP6279a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

### **Anterior Gradient 2 (AGR2) Antibody (N-term) - Background**

Anterior gradient 2 (AGR2) is known as a cancer cell marker specifically up-regulated in response to depletion of serum and oxygen. AGR2 has been identified as a tumor marker in primary and secondary cancer lesions, and as a marker for detection of circulating tumor cells (CTCs). Elevated levels of AGR2 are known to increase the metastatic potential of cancer cells, but conditions leading to increased expression of AGR2 are not well understood.

### **Anterior Gradient 2 (AGR2) Antibody (N-term) - References**

- Zweitzig, D.R., Mol. Cell. Biochem. 306 (1-2), 255-260 (2007)
- Zhang, Y., Prostate Cancer Prostatic Dis. 10 (3), 293-300 (2007)
- Fletcher, G.C., Br. J. Cancer 88 (4), 579-585 (2003)