

AGR2 Antibody
Catalog # ASC11621

Specification

AGR2 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	O95994
Other Accession	NP_006399 , 5453541
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	19 kDa KDa
Application Notes	AGR2 antibody can be used for detection of AGR2 by Western blot at 1 - 2 µg/mL.

AGR2 Antibody - Additional Information

Gene ID **10551**

Target/Specificity

AGR2; Two isoforms of AGR2 exists as a result of alternative splicing event.

Reconstitution & Storage

AGR2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

AGR2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

AGR2 Antibody - 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

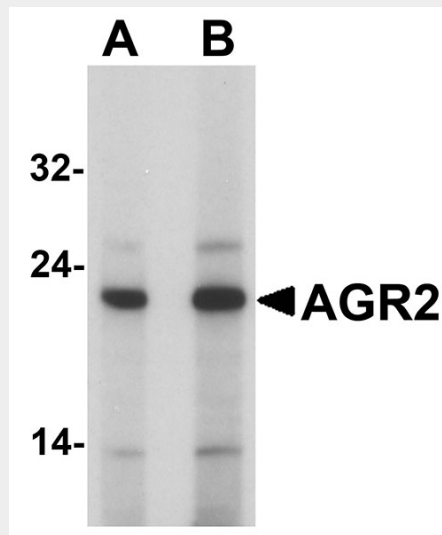
Expressed strongly in trachea, lung, stomach, colon, prostate and small intestine. Expressed weakly in pituitary gland, salivary gland, mammary gland, bladder, appendix, ovary, fetal lung, uterus, pancreas, kidney, fetal kidney, testis, placenta, thyroid gland and in estrogen receptor (ER)-positive breast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

AGR2 Antibody - Protocols

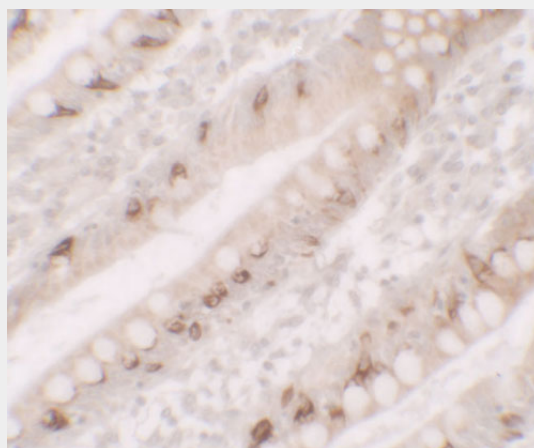
Provided below are standard protocols that you may find useful for product applications.

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

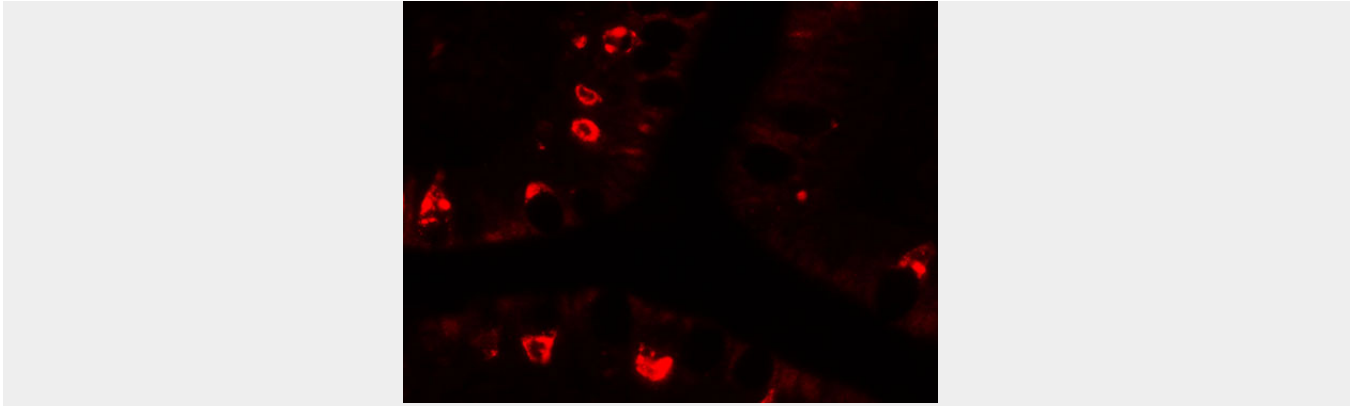
AGR2 Antibody - Images



Western blot analysis of AGR2 in Hela cell lysate with AGR2 antibody at (A) 1 and (B) 2 µg/mL



Immunohistochemistry of AGR2 in human small intestine tissue with AGR2 antibody at 5 µg/ml.



Immunofluorescence of AGR2 in human small intestine tissue with AGR2 antibody at 20 μ g/ml.

AGR2 Antibody - Background

AGR2 Antibody: AGR2 (anterior gradient protein 2) and AGR3 are members of the anterior gradient homolog family. They are secreted cytoplasmic proteins which are involved in metastasis induction and p53 tumour suppressor inhibition. They may serve as molecular markers and potential therapeutic targets for hormone-responsive breast tumours. AGR2 is ubiquitously expressed with upregulated expression in prostate cancer, breast cancer, lung cancer, renal carcinomas and endometrial carcinomas. AGR2 expression is positively correlated with that of the estrogen receptor (ER) and is negatively correlated with that of the epidermal growth factor receptor (EGFR).

AGR2 Antibody - References

Zhang JS, Gong A, Cheville JC, et al. AGR2, an androgen-inducible secretory protein overexpressed in prostate cancer. *Genes Chromosomes Cancer* 2005; 43:249-59.
Zheng W, Rosenstiel P, Huse K, et al. Evaluation of AGR2 and AGR3 as candidate genes for inflammatory bowel disease. *Genes Immun.* 2006; 7:11-8.
Gray TA, MacLaine NJ, Michie CO, et al. Anterior Gradient-3: a novel biomarker for ovarian cancer that mediates cisplatin resistance in xenograft models. *J. Immunol. Methods* 2012; 378:20-32.
Darb-Esfahani S, Fritzsche F, Kristiansen G, et al. Anterior gradient protein 2 (AGR2) is an independent prognostic factor in ovarian high-grade serous carcinoma. *Virchows Arch.* 2012; 461:109-16.