10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AGR3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9424b

Specification

AGR3 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q8TD06
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**19171**
Antigen Region	**119-147**

AGR3 Antibody (C-term) - Additional Information

Gene ID 155465

Other Names
Anterior gradient protein 3 homolog, AG-3, AG3, hAG-3, Breast cancer membrane protein 11, AGR3, BCMP11

Target/Specificity
This AGR3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-147 amino acids from the C-terminal region of human AGR3.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
AGR3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AGR3 Antibody (C-term) - Protein Information

Name AGR3

Synonyms BCMP11, PDIA18

Function Required for calcium-mediated regulation of ciliary beat frequency and mucociliary clearance in the airway. Might be involved in the regulation of intracellular calcium in tracheal epithelial cells.

Cellular Location
Endoplasmic reticulum. Note=Found in the cytoplasm, which could include the endoplasmic reticulum

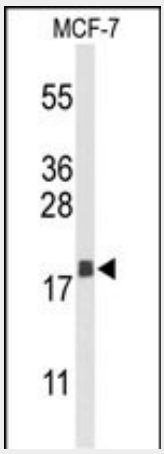
Tissue Location
Expressed in the lung, in the ciliated cells of the airway epithelium (PubMed:25751668). Expression increased with differentiation of airway epithelial cells (PubMed:25751668). Not detected in the mucous cells (PubMed:25751668). Expressed in ciliated cells in the oviduct (PubMed:26170690). Also detected in stomach, colon, prostate and liver (PubMed:25751668). Expressed in breast, ovary, prostate and liver cancer (PubMed:26170690). Expression is associated with the level of differentiation of breast cancer (at protein level) (PubMed:26170690).

AGR3 Antibody (C-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 Cytomety
- Cell Culture

AGR3 Antibody (C-term) - Images



Western blot analysis of AGR3 Antibody (C-term) (Cat. #AP9424b) in MCF-7 cell line lysates (35ug/lane). AGR3 (arrow) was detected using the purified Pab.

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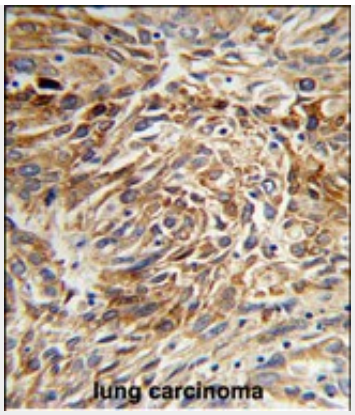
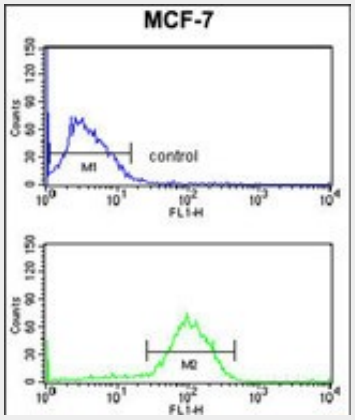


Formalin-fixed and paraffin-embedded human lung carcinoma reacted with AGR3 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



AGR3 Antibody (C-term) (Cat. #AP9424b) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

AGR3 Antibody (C-term) - Background

AGR3 (Anterior Gradient 3) protein, also known as AG3 (hAG3, HAG3 in human), or BCMP11, is a secreted cytoplasmic protein which is involved in metastasis induction and p53 tumour supressor inhibition. It may serve as molecular marker and potential therapeutic target for hormone-responsive breast tumours. Its Xenopus homolog is associated with anteroposterior fate determination during early development.

AGR3 Antibody (C-term) - References

Persson, S., et al. Mol. Phylogenet. Evol. 36(3):734-740(2005)
Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)
Fletcher, G.C., et al. Br. J. Cancer 88(4):579-585(2003)
Adam, P.J., et al. J. Biol. Chem. 278(8):6482-6489(2003)

AGR3 Antibody (C-term) - Citations

- AGR3 promotes estrogen receptor-positive breast cancer cell proliferation in an estrogen-dependent manner