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AGR3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9424b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8TD06
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24783
Calculated MW	19171
Antigen Region	119-147

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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).

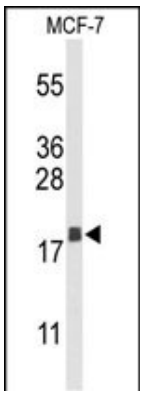
Background

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.

References

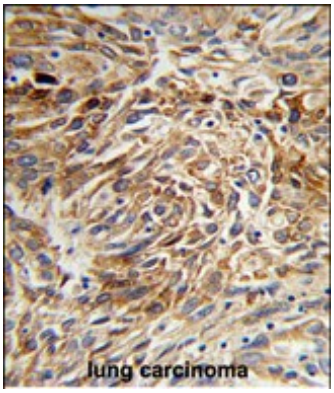
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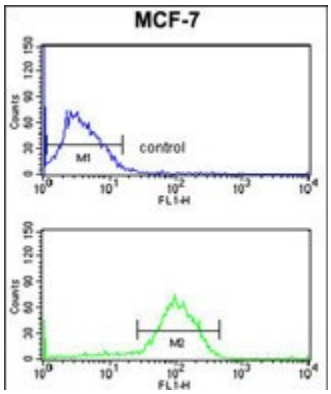
Images



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.

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.

Citations

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.