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Anterior Gradient 2 Rabbit pAb

Catalog # AP99330

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O95994
Other Accession	O95994
Predicted	Rat, Human, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19979
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Anterior Gradient 2
Epitope Specificity	51-150/175
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the AGR family.
SUBUNIT	Interacts with LYPD3 and DAG1 (alphaDAG1). Interacts with MUC2; disulfide-linked.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	AGR2 is a member of the anterior gradient homolog family. It is the human ortholog of XAG-2, the secreted Xenopus laevis Anterior Gradient protein. In X. laevis, it is involved in cement gland differentiation and neural marker gene expression. AGR2 is a secretory protein encoded by two different AGR2 transcripts. It interacts with LYPD3 and ?dystroglycan (DAG-1). AGR2 is ubiquitously expressed with up-regulated 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 may serve as a potential therapeutic marker for various cancers.

Additional Information

Gene ID	10551
Other Names	AG-2; AG2; GOB-4; HAG-2; HEL-S-116; HPC8; PDIA17; RIFTD; XAG-2; Agr2h; mAG-2; AGR2_HUMAN; AGR2; Secreted cement gland protein XAG-2 homolog; AGR2_MOUSE; Protein Gob-4; Gob4; anterior gradient 2, protein disulphide isomerase family member; anterior gradient 2 homolog (Xenopus laevis); protein disulfide isomerase family A, member 17
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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