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

Anti-Anterior Gradient 2 Picoband Antibody

Catalog # ABO10267

Specification

Anti-Anterior Gradient 2 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O95994
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Anterior gradient protein 2 homolog(AGR2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Anterior Gradient 2 Picoband Antibody - 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

Calculated MW
19979 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Secreted . Endoplasmic reticulum .

Tissue Specificity
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. .

Protein Name
Anterior gradient protein 2 homolog

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human Anterior Gradient 2 recombinant protein (Position: R21-L175). Human Anterior Gradient 2 shares 93.5% amino acid (aa) sequence identity with mouse Anterior Gradient 2.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Anterior Gradient 2 Picoband 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

Anti-Anterior Gradient 2 Picoband 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 Cytomety
- Cell Culture

Anti-Anterior Gradient 2 Picoband Antibody - Images

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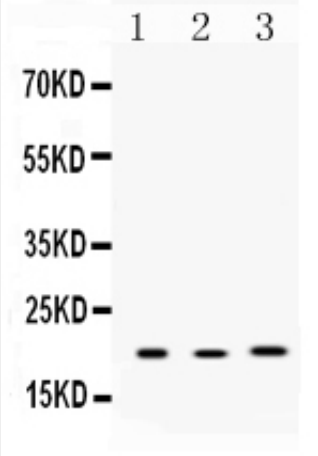
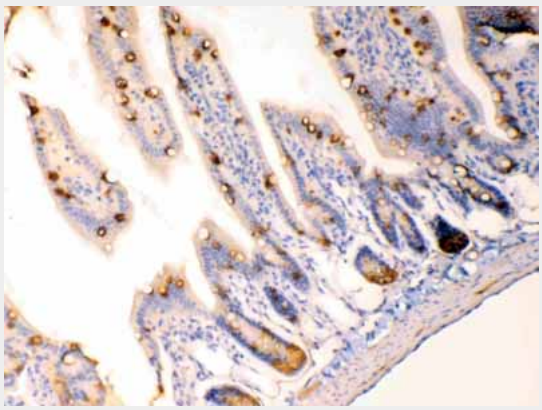
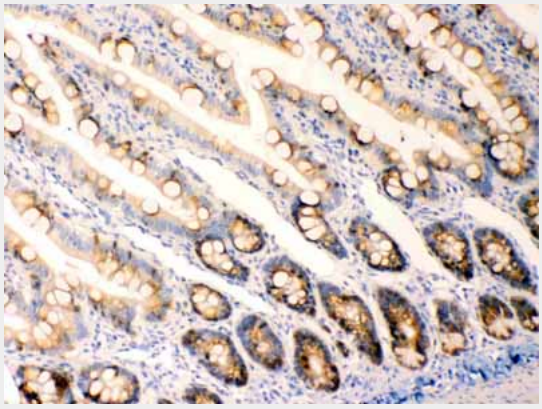


Western blot analysis of Anterior Gradient 2 expression in rat lung extract (lane 1), mouse liver extract (lane 2) and MCF-7 whole cell lysates (lane 3). Anterior Gradient 2 at 20KD was detected using rabbit anti- Anterior Gradient 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10267) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



Anterior Gradient 2 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- Anterior Gradient 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10267) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



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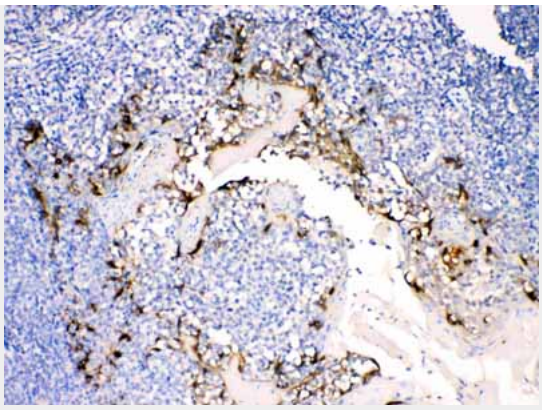
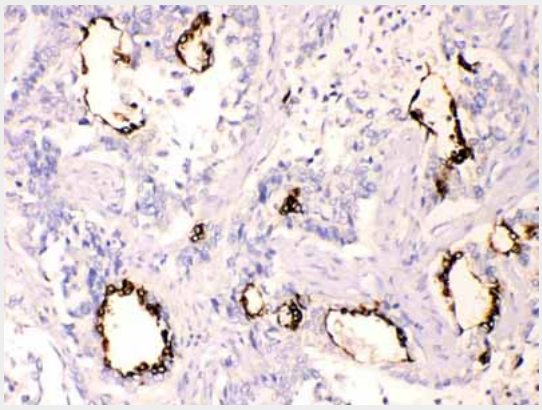


Anterior Gradient 2 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- Anterior Gradient 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10267) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



Anterior Gradient 2 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Anterior Gradient 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10267) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-Anterior Gradient 2 Picoband Antibody - Background

Anterior gradient protein 2 homolog (AGR-2), also known as secreted cement gland protein XAG-2 homolog, is a protein that in humans is encoded by the AGR2 gene. Anterior gradient homolog 2 was originally discovered in Xenopus laevis. In Xenopus AGR2 plays a role in cement gland differentiation, but in human cancer cell lines high levels of AGR2 correlate with downregulation of the p53 response, cell migration, and cell transformation. However, there have been other observations that AGR2 can repress growth and proliferation.