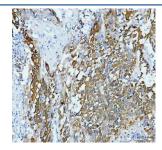


# AGR2 Antibody / Anterior gradient protein 2 (R32653)

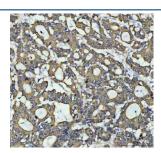
Catalog No.	Formulation	Size
R32653	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

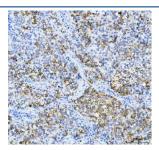
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O95994
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This AGR2 antibody is available for research use only.



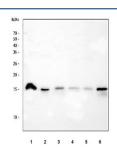
IHC staining of FFPE human bladder infiltrating urothelial carcinoma with squamous differentiation tissue with AGR2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



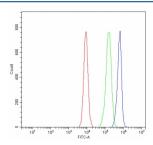
IHC staining of FFPE human colorectal adenocarcinoma tissue with AGR2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human non-small cell lung cancer tissue with AGR2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human T-47D, 2) human A549, 3) rat stomach, 4) rat small intestine, 5) mouse stomach and 6) mouse small intestine tissue lysate with AGR2 antibody at 0.5ug/ml. Expected molecular weight: 17-20 kDa.



Flow cytometry testing of fixed and permeabilized human Caco-2 cells with AGR2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AGR2 antibody.

### **Description**

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.

## **Application Notes**

Optimal dilution of the AGR2 antibody should be determined by the researcher.

#### **Immunogen**

Amino acids R21-L175 from the human protein were used as the immunogen for the AGR2 antibody.

#### **Storage**

After reconstitution, the AGR2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.