

For Research Use Only

AGR2 Monoclonal antibody

Catalog Number: 66768-1-Ig **2 Publications**



Basic Information

Catalog Number: 66768-1-Ig	GenBank Accession Number: BC015503	Purification Method: Protein A purification
Size: 1500 ug/ml	GeneID (NCBI): 10551	CloneNo.: 1A8A8
Source: Mouse	UNIPROT ID: O95994	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:150-1:600 IF-P 1:200-1:800 IF/ICC 1:400-1:1600
Isotype: IgG2b	Full Name: anterior gradient homolog 2 (Xenopus laevis)	
Immunogen Catalog Number: AG2919	Calculated MW: 175 aa, 20 kDa Observed MW: 17 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA	Positive Controls: WB : pig stomach tissue, T-47D cells, HT-29 cells IHC : human breast cancer tissue, IF-P : human colon cancer tissue, IF/ICC : HT-29 cells, A549 cells
Cited Applications: WB	
Species Specificity: human, pig	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

AGR2, also named AG2 or HPC8, encodes anterior gradient protein 2 homolog which belongs to the AGR family. It is a secreted protein localized in endoplasmic reticulum. AGR2 plays roles in MUC2 post-transcriptional synthesis, secretion and production of mucus by intestinal cells. AGR2 was significantly elevated in the pancreatic juice from patients with pre-malignant conditions as well as pancreatic cancer compared to control pancreatic juice samples. AGR2 levels in pancreatic juice could potentially be used to aide in assessment of high-risk patients undergoing endoscopic procedures.

Notable Publications

Author	Pubmed ID	Journal	Application
Haihua Zhang	35600368	Front Oncol	WB
Bingqiu Xiu	31856843	Mol Cancer	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

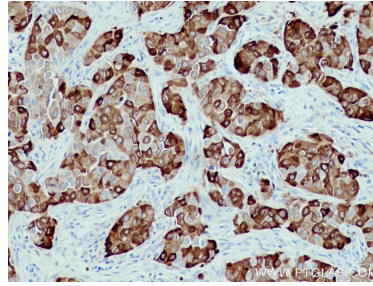
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

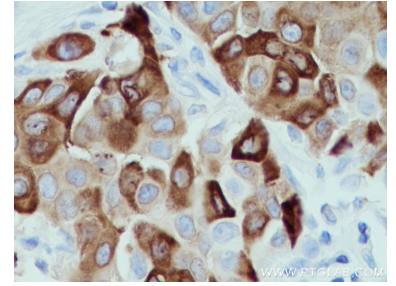
Selected Validation Data



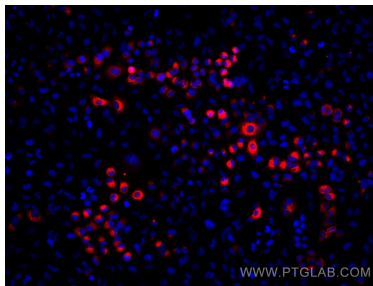
pig stomach tissue were subjected to SDS PAGE followed by western blot with 66768-1-Ig (AGR2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



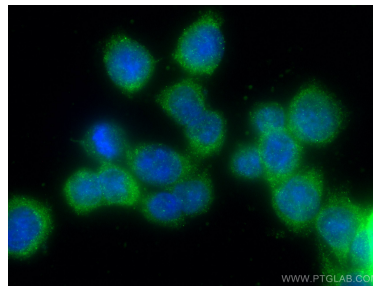
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66768-1-Ig (AGR2 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



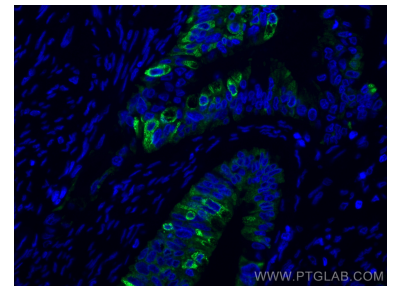
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66768-1-Ig (AGR2 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



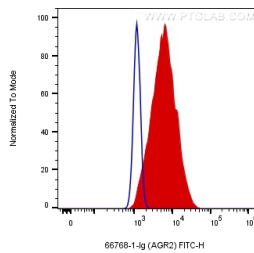
Immunofluorescent analysis of (4% PFA) fixed A549 cells using AGR2 antibody (66768-1-Ig, Clone: 1A8A8) at dilution of 1:1500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Immunofluorescent analysis of (-20°C Ethanol) fixed HT-29 cells using AGR2 antibody (66768-1-Ig, Clone: 1A8A8) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using AGR2 antibody (66768-1-Ig, Clone: 1A8A8) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10⁶ HT-29 cells were intracellularly stained with 0.2 ug Anti-Human AGR2 (66768-1-Ig, Clone:1A8A8) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), and 0.2 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.