For Research Use Only

AGR2 Monoclonal antibody

Catalog Number:66768-1-Ig 2 Publications

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Basic Information

Catalog Number:
66768-1-Ig

Size:
1500 μg/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG2919

GenBank Accession Number:
BC015503

GeneID (NCBI):
10551

UNIPROT ID:
O95994

Full Name:
anterior gradient homolog 2 (Xenopus laevis)

Calculated MW:
175 aa, 20 kDa

Observed MW:
17 kDa

Purification Method:
Protein A purification

CloneNo.:
1A8A8

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:150-1:600
IF 1:400-1:1600

Applications

Tested Applications:
FC, IF/ICC,IF-P, IHC, WB, ELISA

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

Positive Controls:

WB : pig stomach tissue, T-47D cells, HT-29 cells

IHC : human breast cancer tissue,

IF : HT-29 cells, human colon cancer tissue

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

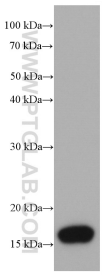
Author	Pubmed ID	Journal	Application
Haihua Zhang	35600368	Front Oncol	WB
Bingqiu Xiu	31856843	Mol Cancer	WB

Storage

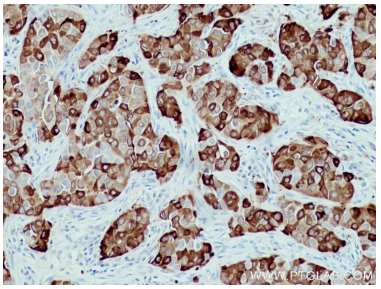
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

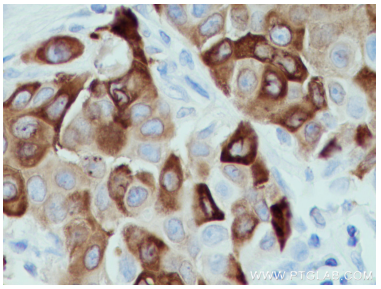
Selected Validation Data



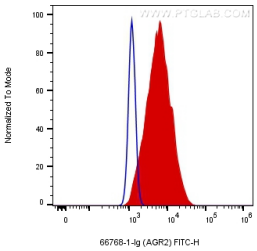
pig stomach tissue were subjected to SDS PAGE followed by western blot with 66768-1-Ig (AGR2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



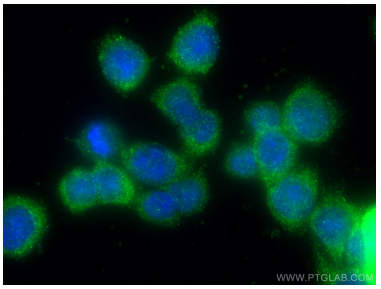
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66768-1-Ig (AGR2 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10^6 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.



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).