AGR2 (6C5): sc-101211

BACKGROUND

AGR2 (anterior gradient protein 2), also known as AG2, GOB-4 or HAG-2, 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, AGR2 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 α-dystroglycan (DAG-1). AGR2 is ubiquitously expressed with upregulated 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.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: AGR2 (human) mapping to 7p21.1; Agr2 (mouse) mapping to 3.

SOURCE

AGR2 (6C5) is a mouse monoclonal antibody raised against recombinant AGR2 of human origin.

PRODUCT

Each vial contains 100 µg IgG κ light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

AGR2 (6C5) is recommended for detection of AGR2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for AGR2 siRNA (h): sc-61956, AGR2 siRNA (m): sc-61957, AGR2 shRNA Plasmid (h): sc-61956-SH, AGR2 shRNA Plasmid (m): sc-61957-SH, AGR2 shRNA (h) Lentiviral Particles: sc-61956-V and AGR2 shRNA (m) Lentiviral Particles: sc-61957-V.

Molecular Weight of AGR2: 18-21 kDa.

Positive Controls: AGR2 (h): 293 Lysate: sc-112951, AGR2 (m): 293T Lysate: sc-118272 or MCF7 whole cell lysate: sc-2206.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κBP-HRP: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

1. AGR2 (6C5) is recommended for detection of AGR2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SELECT PRODUCT CITATIONS


STORAGE

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.