AGR2 (D9V2F) XP® Rabbit mAb

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications | Species Cross-Reactivity* | Molecular Wt. | Isotype | Source/Purification |
---|---|---|---|---|
W, IHC-P, IF-IC, F | H, (Mk, X) | 18 kDa | Rabbit IgG** | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala29 of human AGR2 protein. |
Endogenous | | | | |

Background: Anterior gradient homolog 2 (AGR2) is a member of the protein disulfide isomerase (PDI) family of proteins and a homolog of the Xenopus laevis cement gland protein (1). In normal human tissues, AGR2 is expressed most abundantly in intestinal cells. Research studies have found AGR2 is overexpressed in a number of adenocarcinomas, including those derived from breast, pancreas, ovary, prostate and esophagus (2-4). In vitro and in vivo studies have shown that AGR2 positively regulates cell growth and division, while its overexpression can promote cell transformation (5,6). The latter functions of AGR2 were shown to involve YAP1-mediated up-regulation of amphiregulin expression, implicating AGR2 in both the EGF and Hippo kinase signaling pathways (6).

Specificity/Sensitivity: AGR2 (D9V2F) XP® Rabbit mAb recognizes endogenous levels of total AGR2 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala29 of human AGR2 protein.

Recommended Antibody Dilutions:
- Western blotting: 1:1000
- Immunohistochemistry (Paraffin): 1:800†
- Immunofluorescence (IF-IC): 1:100
- Flow Cytometry: 1:50

Recommended Diluents:
- Unmasking buffer: Citrate
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114
- Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

Recommended Complementary Products:
- Alexa Fluor® is a registered trademark of Molecular Probes, Inc.
- Tween® is a registered trademark of ICI Americas, Inc.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Background References:

Orders ■ 877-616-CELL (2355)
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Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at −20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

** Anti-rabbit secondary antibodies must be used to detect this antibody.

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Immunohistochemical analysis of paraffin-embedded human non-small cell lung carcinoma using AGR2 (D9V2F) XP® Rabbit mAb in the presence of control peptide (right) and antigen-specific peptide (left).

Flow cytometric analysis of HeLa (blue) and MCF7 (green) cells using AGR2 (D9V2F) XP® Rabbit mAb. Anti-rabbit IgG (H+L), F(ab’)_2 Fragment (Alexa Fluor® 647 Conjugate) #4414 was used as a secondary antibody.