

Store at
-20C
#13062**AGR2 (D9V2F) XP[®] Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #O95994	Entrez-Gene Id: 10551
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Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:800
1:100
1:50

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.

For a carrier free (BSA and azide free) version of this product see product #86533.

Specificity/Sensitivity

AGR2 (D9V2F) XP[®] Rabbit mAb recognizes endogenous levels of total AGR2 protein.

Species predicted to react based on 100% sequence homology

Monkey, Xenopus

Source / Purification

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

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).

Background References

1. Maresh, E.L. et al. (2010) *BMC Cancer* 10, 680.
2. Pizzi, M. et al. (2012) *Appl Immunohistochem Mol Morphol* 20, 31-6.
3. Wang, Z. et al. (2008) *Cancer Res* 68, 492-7.
4. Park, K. et al. (2011) *Exp Mol Med* 43, 91-100.
5. Vanderlaag, K.E. et al. (2010) *Breast Cancer Res* 12, R32.
6. Dong, A. et al. (2011) *J Biol Chem* 286, 18301-10.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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