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Store at -20C
#8576

GOPC (D10A12) Rabbit mAb

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 59	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HD26	Entrez-Gene Id: 57120
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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.

Specificity/Sensitivity

GOPC (D10A12) Rabbit mAb detects endogeneous levels of total GOPC protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe31 of human GOPC protein.

Background

GOPC (FIG) was originally identified as a Golgi-associated, PDZ domain containing protein. It has two coiled-coil domains (CC1 and CC2) located in the amino-terminal region and a PDZ domain in the carboxy-terminal region (1). The CC2 domain and its adjacent linker region mediate the association of GOPC with the golgi protein golgin-160 and the Q-SNARE protein syntaxin 6 (1,2). The PDZ domain of GOPC interacts with the carboxy terminus of target proteins to mediate target protein vesicular trafficking and surface expression (3-6). Fusion of the corresponding GOPC gene with the ROS tyrosine kinase oncogene has been detected in some glioblastomas. The resulting GOPC-ROS fusion protein is targeted to the golgi apparatus where a constitutively activate ROS tyrosine kinase can mediate tumor formation (7,8).

Background References

1. Charest, A. et al. (2001) *J Biol Chem* 276, 29456-65.
2. Hicks, S.W. and Machamer, C.E. (2005) *J Biol Chem* 280, 28944-51.
3. Cheng, J. et al. (2002) *J Biol Chem* 277, 3520-9.
4. He, J. et al. (2004) *J Biol Chem* 279, 50190-6.
5. Wenthe, W. et al. (2005) *J Biol Chem* 280, 32419-25.
6. Ito, H. et al. (2006) *Biochem J* 397, 389-98.
7. Charest, A. et al. (2003) *Proc Natl Acad Sci USA* 100, 916-21.
8. Charest, A. et al. (2006) *Cancer Res* 66, 7473-81.

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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