



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

GOPC Antibody

Store at -20C
#4646

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

Applications: W, IP	Reactivity: H R	Sensitivity: Transfected Only	MW (kDa): 59	Source/Isotype: Rabbit	UniProt ID: #Q9HD26	Entrez-Gene Id: 57120
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GOPC Antibody detects transfected levels of total GOPC protein. The antibody also detects endogenous levels of GOPC following IP enrichment.

Species predicted to react based on 100% sequence homology

Mouse

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Met266 of human GOPC protein. Antibodies are purified by protein A and peptide affinity chromatography.

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

- Charest, A. et al. (2001) *J Biol Chem* 276, 29456-65.
- Hicks, S.W. and Machamer, C.E. (2005) *J Biol Chem* 280, 28944-51.
- Cheng, J. et al. (2002) *J Biol Chem* 277, 3520-9.
- He, J. et al. (2004) *J Biol Chem* 279, 50190-6.
- Wente, W. et al. (2005) *J Biol Chem* 280, 32419-25.
- Ito, H. et al. (2006) *Biochem J* 397, 389-98.
- Charest, A. et al. (2003) *Proc Natl Acad Sci USA* 100, 916-21.
- 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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **R:** Rat

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