



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Farnesyl. Rabbit Polyclonal Antibody

**BACKGROUND**

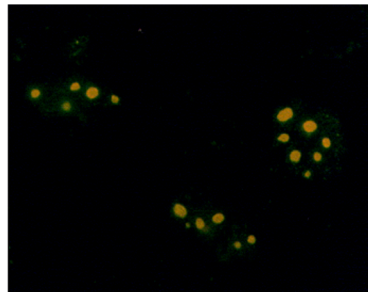
Protein isoprenylation is a post-translational modification that affects about 0.5% of cellular proteins and is essential for the biological activity of proteins. Two enzymes catalyze the attachment of two prenyl groups to the sulfhydryl group of carboxyl-terminal cysteine groups. Proteins which are prenylated by these enzymes have a distinct motif at the C-terminal of the protein, C-A<sub>1</sub>-A<sub>2</sub>-X (C = Cysteine, A<sub>1</sub> & A<sub>2</sub> = aliphatic amino acids).

The two enzymes involved in this transfer are farnesyltransferase and geranylgeranyltransferase. These transfer a 15 carbon farnesyl or a 20 carbon geranylgeranyl, respectively, from a prenyl-pyrophosphate to the protein. Examples of proteins containing this C-A-A-X motif are members of the Ras small G protein family, the nuclear lamins and the gamma subunit of trimeric G proteins. Prenylation of proteins is necessary for membrane association of proteins as well as protein-protein interactions and the nature of the linked isoprenyl group can influence the protein interactions, such as the interaction between G proteins and receptors.

**IMMUNOGEN**

Antibody developed using farnesyl cysteine conjugated to KLH.

Immunofluorescence assay using anti-Farnesyl antibody on plasmids encoding isoprenylated protein and visualized using FITC-conjugated goat anti-rabbit antibody.



**ORDERING INFORMATION**

**CATALOG NUMBER**

X1165P

**SIZE**

100 µg

**FORM**

Unconjugated

**HOST/CLONE**

Rabbit

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

IF, Elisa

**SPECIES REACTIVITY**

Ubiquitous

**ACCESSION NUMBER**

Human P14324

## **POSITIVE CONTROL/TISSUE EXPRESSION**

### **COMMENTS**

Optimal concentration should be evaluated by serial dilutions.

### **PURIFICATION**

Ammonium Sulfate Precipitation

### **SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

### **STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

### **STABILITY**

Products are stable for one year from purchase when stored properly

### **REFERENCES**

1. Baron, R., et al. RhoB prenylation is driven by the three carboxyl-terminal amino acids of the protein: evidenced in vivo by an anti-farnesyl cysteine antibody. *Proc. Natl. Acad. Sci. USA* 2000, 97, 11626-11631
2. Lin, H.P. et al. Localization of isoprenylated antigen of hepatitis delta virus by anti-farnesyl antibodies. *J. Gen. Virol.* 1999, 80, 91-96
3. Aspbury, R.A., et al. Isoprenylation of polypeptides in the nematode *Caenorhabditis elegans*. *Biochim Biophys Acta* 1998, 1392, 265-275
4. Zhang, F.L. & Casey, P.J. Protein prenylation: molecular mechanisms and functional consequences. *Annu. Rev. Biochem.* 1996, 65, 241-269
5. Gromov, P.S., et al. Identification of isoprenyl modified proteins metabolically labeled with [3H]farnesyl- and [3H]geranylgeranyl-pyrophosphate. *Electrophoresis* 1996, 17, 1728-1733

### **PRODUCT SPECIFIC REFERENCES**

1. Clase, A.C., et al, 'The Pseudorabies Virus Us2 Protein, a Virion Tegument Component, Is Prenylated in Infected Cells' *Journal of Virology* 2003, 77, , 12285-12298