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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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GPR4 . Rabbit Antigen Immunoaffinity Purified Polyclonal

Background

Sphingosylphosphorylcholine (SPC) and lysophosphatidylcholine (LPC) are bioactive lipid molecules involved in numerous biologicals processes. GPR4 shares sequence homology with OGR1 (51%), the highest of all GPCR's. GPR4 has been identified as another high affinity receptor for SPC and low affinity receptor for LPC. SPC and LPC stimulate kinase activation and DNA synthesis stimulated, both of which are pertussis toxin-sensitive, suggesting Gi-heterotrimeric G protein involvement. The GPR4 subfamily of GPCR's consists of four receptors that share significant sequence homology; OGR1, TDAG8 and G2A. G2A has been shown to be a potent transforming oncogene. GPR4 also malignantly transforms NIH3T3 cells and TDAG8 malignantly transforms the normal mammary epithelial cell line NMuMG. Overexpression of GPR4 or TDGA8 in HEK293 cells leads to transcriptional activation independent of exogenously added ligand. TDAG8 and GPR4 are also overexpressed in a range of human cancer tissues suggestive of a driving role in maintaining tumor formation.

Ordering Information

Catalog Number
X1638P

Size
10 Miniblots

Form
Unconjugated

Host/Clone
Rabbit

Formulation
Provided as ligand affinity purified antibody in phosphate buffered saline with 0.08% sodium azide

Concentration
Lot specitic, see vial label

Isotype
IgG

Applications
Western Blot

Species Reactivity
Human

Accession Number
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Immunogen

Synthetic peptide derived from the GPR4 protein.

Positive Control/Tissue Expression

Human brain lysate (Cat. No. X1633C)

Comments

Antibody can be used for Western blotting (1:400 dilution). Tissue lysate should be used at 10-50 μg/lane. Other applications not yet tested. Optimal concentration should be evaluated by serial dilutions.

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PURIFICATION

Antigen Immunoaffiinity Purification

SHIP CONDITIONS

Ship on dry ice, freeze upon arrival

STORAGE CUSTOMER

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

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

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3. Bektas, M., et al. “The G protein-coupled receptor GPR4 suppresses ERK activation in a ligand-independent manner.” Biochemistry 2003, 42, 12181-12191

4. Lum, H., et al. “Inflammatory stress increases receptor for lysophosphatidylcholine in human microvascular endothelial cells.” Am. J. Physiol. Heart Circ. Physiol. 2003, 285, H1786-H1789

5. Xu, Y. “Sphingosylphosphorylcholine and lysophosphatidylcholine: G protein-coupled receptors and receptor-mediated signal transduction.” Biochim Biophys Acta 2002, 1582, 81-88

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7. An, S., et al. “Cloning, sequencing and tissue distribution of two related G protein-coupled receptor candidates expressed prominently in human lung tissue.” FEBS Lett. 1995, 375, 121-124

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