


Anti-GNAQ antibody ab75825

★★★★★ [2 Abreviews](#) [11 References](#) [5 图像](#)

概述

产品名称	Anti-GNAQ抗体
描述	兔多克隆抗体to GNAQ
宿主	Rabbit
特异性	The immunogen used for this product shares 66% homology with GNA11. Cross-reactivity with this protein has not been confirmed experimentally.
经测试应用	适用于: IHC-P, WB, ICC/IF, IP
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Dog, Pig, Xenopus laevis 
免疫原	Synthetic peptide corresponding to Human GNAQ aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as ab86404)
阳性对照	This antibody gave a positive signal in the following lysates: HepG2 Whole Cell; Mouse Pancreas Tissue; Mouse Kidney Tissue; Rat Liver Tissue. This antibody gave a positive result in IHC in the following FFPE tissue - Human normal lung
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee Abpromise™ 承诺保证使用ab75825于以下的经测试应用

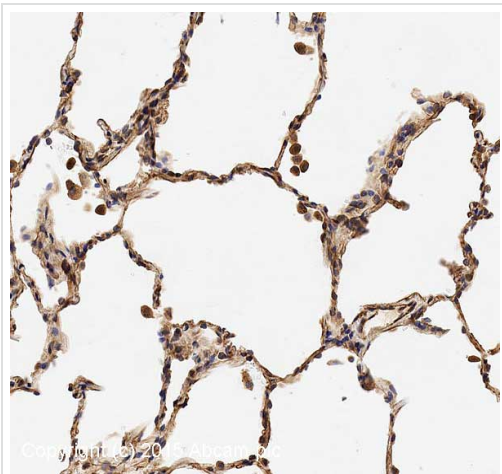
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 1 - 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa).
ICC/IF	★★★★★ (2)	Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration.

靶标

功能	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems.
组织特异性	Predominantly expressed in ovary, prostate, testis and colon.
序列相似性	Belongs to the G-alpha family. G(q) subfamily.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GNAQ antibody (ab75825)

IHC image of GNAQ staining in Human normal lung formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab75825, 1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-GNAQ antibody (ab75825)

All lanes : Anti-GNAQ antibody (ab75825) at 1 µg/ml

Lane 1 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 2 : Pancreas (Mouse) Tissue Lysate

Lane 3 : Kidney (Mouse) Tissue Lysate

Lane 4 : Liver (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

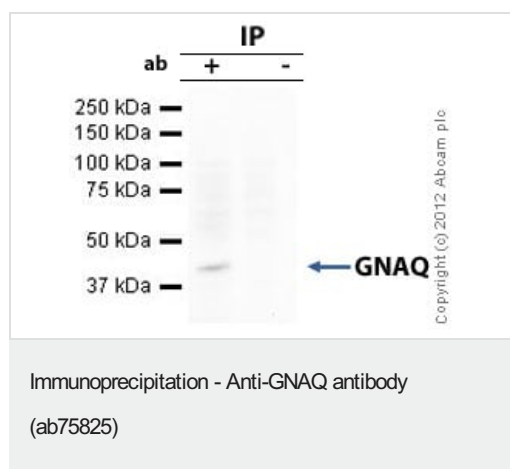
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP)

Developed using the ECL technique.

Predicted band size: 42 kDa

Observed band size: 42 kDa

Additional bands at: 70 kDa. We are unsure as to the identity of these extra bands.

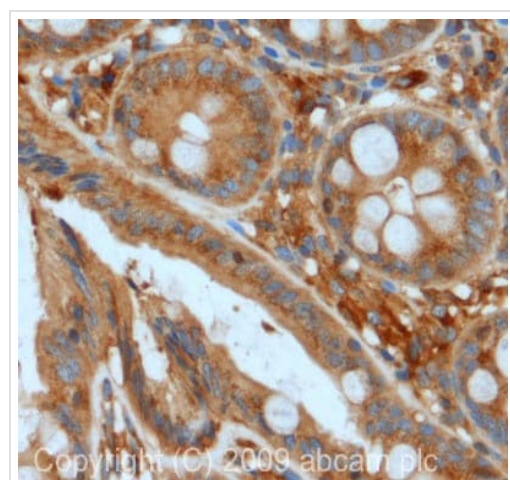


GNAQ was immunoprecipitated using 0.5mg HepG2 whole cell extract, 5µg of Rabbit polyclonal to GNAQ and 50µl of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10min, HepG2 whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab75825.

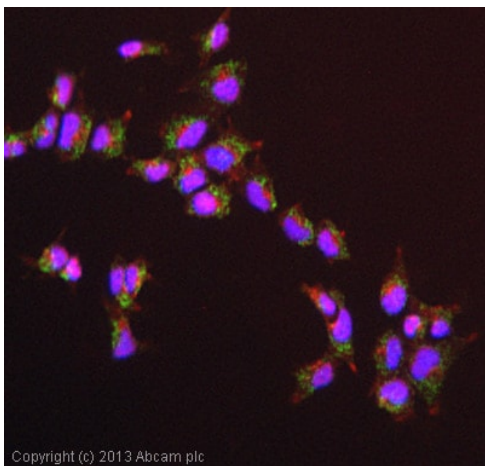
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 42kDa: GNAQ.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GNAQ antibody (ab75825)

IHC image of G protein alpha q staining in human colon formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab75825, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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Immunocytochemistry/ Immunofluorescence - Anti-GNAQ antibody (ab75825)

ICC/IF image of ab75825 stained Hek293 cells. The cells were 4% paraformaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab75825, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% paraformaldehyde fixed (10 min) HepG2 cells at 5µg/ml, and in 100% methanol fixed (5 min) Hek293, HepG2 and MCF7 cells at 5µg/ml.

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