abcam

Product datasheet

Anti-GNB1 antibody ab3433

画像数 3

製品の概要

製品名	Anti-GNB1 antibody
製品の詳細	Rabbit polyclonal to GNB1
由来種	Rabbit
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Rat, Sheep, Human **交差が予測される動物種:** Dog, Xenopus laevis, Zebrafish, Amphibian, Chinese hamster
免疫原	Synthetic peptide corresponding to Human GNB1 aa 8-25. Sequence: RQEAEQLKNQIRDARKAC (Peptide available as **ab4972**) Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: sheep retinal extracts, rat brain, Jurkat, MC7, MDA-MB-231, T-47D
特記事項	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. 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

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified
一次抗体 備考	Vision involves the conversion of light into electrochemical signals that are processed by the retina and subsequently sent to, and interpreted by, the brain. The process of converting light into

an electrochemical signal begins when the membrane-bound protein, rhodopsin, absorbs light within the retina. Photoexcitation of rhodopsin causes the cytoplasmic surface of the protein to become catalytically active. In the active state, rhodopsin activates transducin, a GTP binding protein. Once activated, transducin promotes the hydrolysis of cGMP by phosphodiesterase (PDE). The decrease of intracellular cGMP concentration causes the ion channels within the outer segment of the rod or cone to close, thus causing membrane hyperpolarization and, eventually, signal transmission. Rhodopsin activity is believed to be shut off by phosphorylation followed by binding of the soluble protein, arrestin. Transducin, once activated by rhodopsin, promotes the hydrolysis of cGMP by PDE. The subunit composition of transducin differs between different photoreceptor cells. Rod transducin consists of rod transducin alpha (Tr alpha), T beta, and T gamma. Cone transducin is composed of cone transducin alpha (Tc alpha), T beta and T gamma. Differential transducin subunit composition of transducin is believed to be responsible for the different light sensitivities between photoreceptive cells.

ポリ/モノ ポリクローナル

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab3433の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 2 µg/ml.

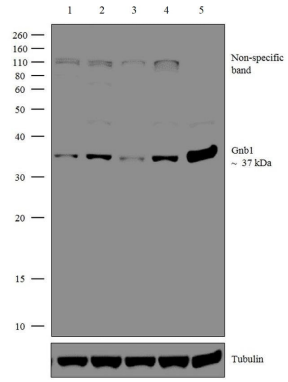
ターゲット情報

機能 Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

配列類似性 Belongs to the WD repeat G protein beta family.
Contains 7 WD repeats.

翻訳後修飾 Phosphorylation at His-266 by NDKB contributes to G protein activation by increasing the high energetic phosphate transfer onto GDP.

画像



Western blot - Anti-GNB1 antibody (ab3433)

All lanes : Anti-GNB1 antibody (ab3433) at 1 µg/ml

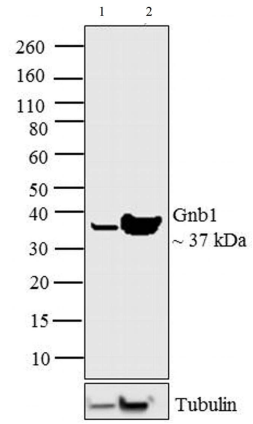
Lane 1 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate
Lane 2 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 3 : MDA-MB-231 (Human breast adenocarcinoma cell line) whole cell lysate
Lane 4 : T-47D (Human ductal breast epithelial tumor cell line) whole cell lysate
Lane 5 : tissue extract of Rat Brain

Lysates/proteins at 30 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate at 1/4000 dilution

Additional bands at: ~37 kDa. We are unsure as to the identity of these extra bands.

Detection: chemiluminescence.



Western blot - Anti-GNB1 antibody (ab3433)

All lanes : Anti-GNB1 antibody (ab3433) at 2 µg/ml

Lane 1 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate with skimmed milk

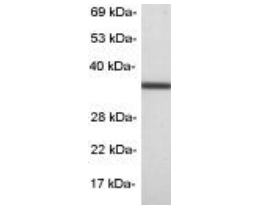
Lane 2 : Rat Brain with skimmed milk

Blocking peptides at 5 % per lane.

Secondary

All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate at 1/2500 dilution

Detection: chemiluminescence.



Western blot - Anti-GNB1 antibody (ab3433)

Western blot of Tr beta on sheep retinal extracts using ab3433.
Western blot of GNB1 on sheep retinal extracts using ab3433.

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