

Product datasheet

Anti-G-protein coupled receptor 30 antibody ab39742

★★★★☆ 7 Abreviews 29 References 4 Images

Overview

Product name	Anti-G-protein coupled receptor 30 antibody
Description	Rabbit polyclonal to G-protein coupled receptor 30
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 350 to the C-terminus of Human GPCR GPR30. Read Abcam's proprietary immunogen policy (Peptide available as ab41565 .)
Positive control	ab39742 gives a positive signal in Human Brain Membrane Lysate, Human Brain Tissue Lysate (data not shown), and MCF7 Whole Cell Lysate (data not shown) This antibody gave a positive signal in the following cell types: U-87 MG.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab39742** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

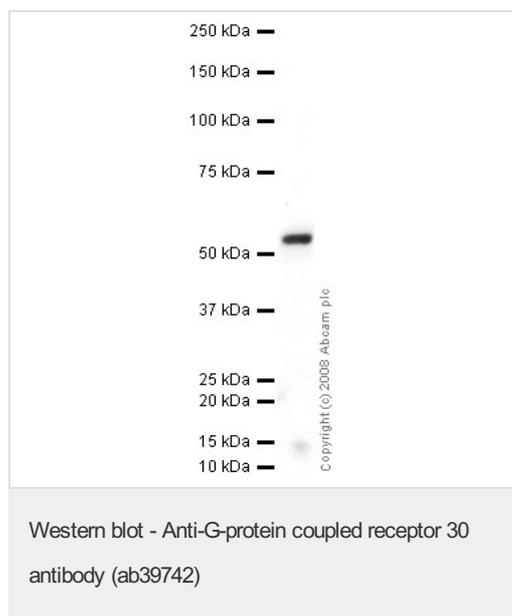
Application	Abreviews	Notes
IHC-Fr	★★★★☆	1/200 - 1/400.

Application	Abreviews	Notes
WB	★★★★☆	1/250. Detects a band of approximately 55 kDa (predicted molecular weight: 42 kDa).
ICC/IF	★★★★★	Use a concentration of 5 µg/ml.
IHC-P		Use at an assay dependent concentration. PubMed: 24421881

Target

Function	Receptor for estrogen.
Tissue specificity	Ubiquitously expressed, but is most abundant in placenta. In brain regions, expressed as a 2.8 kb transcript in basal forebrain, frontal cortex, thalamus, hippocampus, caudate and putamen.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Cellular localization	Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus membrane. Protein has been detected in the cell membrane, endoplasmic reticulum and Golgi apparatus. It is currently unclear whether this is a cell surface or intracellular receptor.

Images



Anti-G-protein coupled receptor 30 antibody (ab39742) at 1 µg/ml + Human brain normal tissue lysate - membrane extract (ab29456) at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

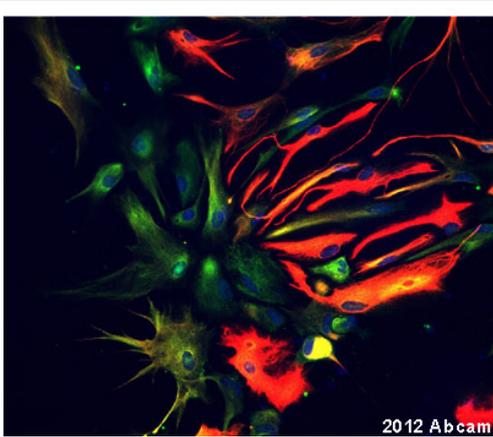
Performed under reducing conditions.

Predicted band size: 42 kDa

Observed band size: 55 kDa

[why is the actual band size different from the predicted?](#)

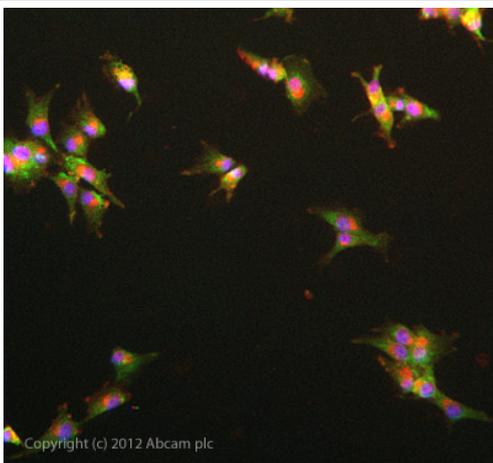
GPR30 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Immunocytochemistry/ Immunofluorescence - Anti-G-protein coupled receptor 30 antibody (ab39742)

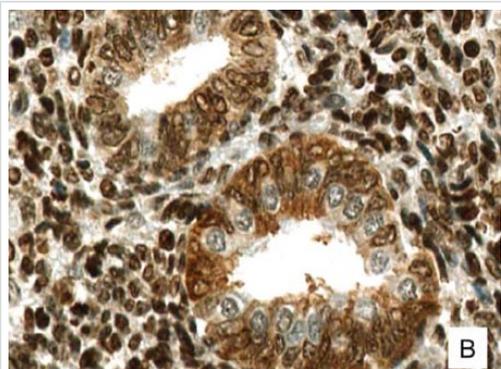
This image is courtesy of an Abreview submitted by Ruma Raha-Chowdhury

ab39742 staining cultured rat primary astrocytes by ICC/IF. The cultured cells were fixed with 4% paraformaldehyde for 5 minutes and blocked with 10% donkey serum in 0.1% PBS-0.3% TritonX for 30 minutes at 24°C. The cultured cells were then stained with ab39742 at 1/500 in 0.3% TritonX with 0.1% PBS and 10% donkey serum for 4h at 24°C. An Alexa Fluoro 488 donkey anti-rabbit polyclonal antibody at 1/1000 was used as the secondary antibody. Nuclei were stained with 1.43µM Hoechst and can be observed in blue. In red astrocytes can be observed (monoclonal anti GFAP).



Immunocytochemistry/ Immunofluorescence - Anti-G-protein coupled receptor 30 antibody (ab39742)

ICC/IF image of ab39742 stained U87-MG cells. The cells were 4% formaldehyde 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 ab39742 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab968899) IgG (H+L) used at a 1/1000 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.



Immunohistochemical analysis of Human ovarian endometriosis tissue, staining G-protein coupled receptor 30 with ab39742 at 1/50 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-G-protein coupled receptor 30 antibody (ab39742)

Image from Samartzis N et al., *Reprod Biol Endocrinol*. 2012 Apr 20;10:30. doi: 10.1186/1477-7827-10-30. Fig 3.; 20 April 2012, *Reproductive Biology and Endocrinology* 2012, 10:30

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