

Product datasheet

Anti-ARRDC3 antibody ab64817

9 References 4 Images

Overview

Product name	Anti-ARRDC3 antibody
Description	Rabbit polyclonal to ARRDC3
Host species	Rabbit
Specificity	ab64817 detects endogenous levels of total ARRDC3 protein.
Tested applications	Suitable for: ICC/IF, IP, WB, ELISA, IHC-Fr, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	A synthetic peptide derived from the C-terminal of human ARRDC3.
Positive control	Extracts from Jurkat and COLO205 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Purification notes	ab64817 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab64817** 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
ICC/IF		Use a concentration of 5 µg/ml.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration. PubMed: 25086961
WB		1/500 - 1/1000. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
ELISA		1/20000.
IHC-Fr		Use at an assay dependent concentration. PubMed: 20603614
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

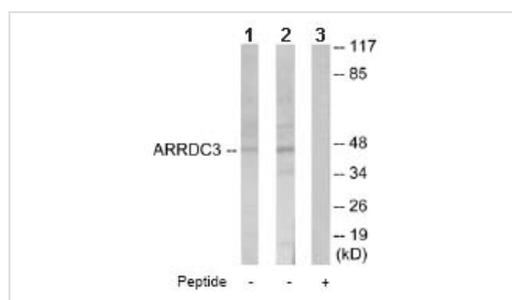
Relevance

The arrestins are a family of proteins that are important for regulating signal transduction within cells. Arrestins are part of a conserved two step mechanism for regulating the activity of G-protein coupled receptors (GPCRs). In response to a stimulus, GPCRs activate a heterotrimeric G protein. In order to turn off this response, or adapt to a constant stimulus, activated receptors need to be silenced. The first step is phosphorylation by a class of serine/threonine kinases called G protein coupled receptor kinases (GRKs). This phosphorylation specifically marks the activated receptor for arrestin binding. Once arrestin is bound to the receptor it is unable to signal further. Recent research continues to expand the known actions of arrestins, which can bind to other classes of receptors and can directly activate signaling pathways on their own. Different arrestins (visual arrestin (or Arrestin 1), beta-arrestin 1 (or Arrestin 2) and beta-arrestin 2 (or Arrestin 3) can reduce the activity of their target GPCRs in several different ways.

Cellular localization

Cytoplasm. Note: Associated with plasma membrane, as well as with endosomes and lysosomes during endocytosis.

Images



Western blot - Anti-ARRDC3 antibody (ab64817)

All lanes : Anti-ARRDC3 antibody (ab64817) at 1/500 dilution

Lane 1 : Extracts from Jurkat cells

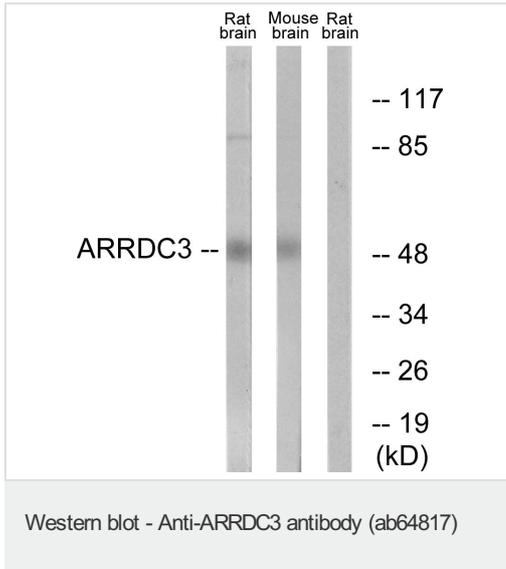
Lane 2 : Extracts from COLO205 cells

Lane 3 : Extracts from COLO205 cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

Predicted band size: 46 kDa

Observed band size: 46 kDa



All lanes : Anti-ARRDC3 antibody (ab64817) at 1/500 dilution

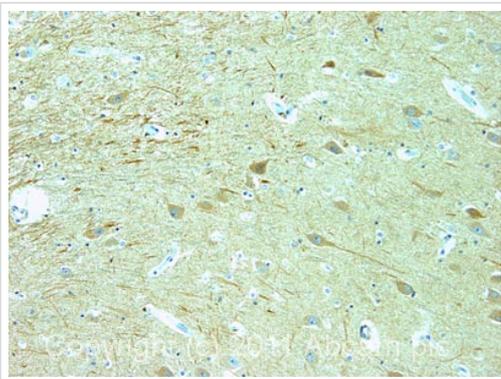
Lane 1 : Rat brain lysates

Lane 2 : Mouse brain lysates

Lane 3 : Mouse brain lysates with immunizing peptide at 5 µg

Predicted band size: 46 kDa

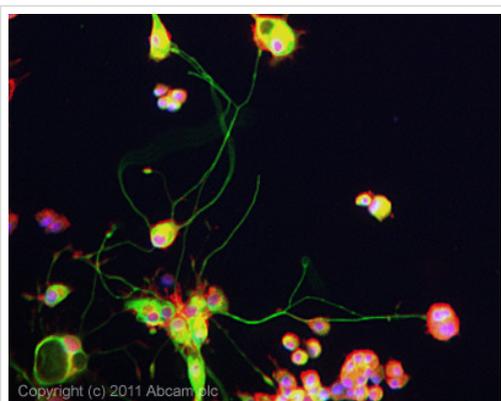
Observed band size: 46 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARRDC3 antibody (ab64817)

IHC image of ab64817 staining in normal human hippocampus 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 ab64817, 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.

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.



Immunocytochemistry/ Immunofluorescence - Anti-ARRDC3 antibody (ab64817)

ICC/IF image of ab64817 stained PC12 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 (ab64817, 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.

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