

# Anti-PAR6 antibody ab49776

[8 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-PAR6 antibody
<b>Description</b>	Rabbit polyclonal to PAR6
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human PAR6 aa 300 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab49775</a> )
<b>Positive control</b>	This antibody gave a positive signal using a PARD6A partial Human Recombinant Tagged Protein
<b>General notes</b>	<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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified

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.

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab49776 in the following tested applications.

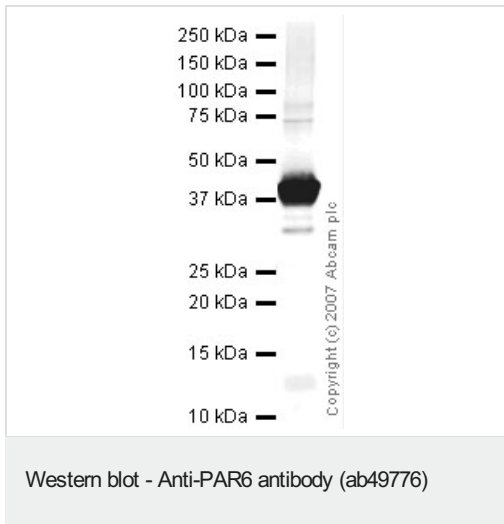
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa).

## Target

<b>Function</b>	Adapter protein involved in asymmetrical cell division and cell polarization processes. Probably involved in the formation of epithelial tight junctions. Association with PARD3 may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly. The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins.
<b>Tissue specificity</b>	Expressed in pancreas, skeletal muscle, brain and heart. Weakly expressed in kidney and placenta.
<b>Sequence similarities</b>	Belongs to the PAR6 family. Contains 1 OPR domain. Contains 1 PDZ (DHR) domain. Contains 1 pseudo-CRIB domain.
<b>Domain</b>	The pseudo-CRIB domain together with the PDZ domain is required for the interaction with Rho small GTPases. The OPR domain mediates interactions with MAP2K5. The PDZ domain mediates the interaction with CRB3.
<b>Cellular localization</b>	Cytoplasm. Cell membrane. Cell projection > ruffle. Cell junction > tight junction. Colocalizes with GTP-bound CDC42 or RAC1 at membrane ruffles and with PARD3 and PRKCI at epithelial tight junctions.

## Images



Anti-PAR6 antibody (ab49776) at 1 µg/ml + PARD6A partial Human Recombinant Tagged Protein at 0.2 µg

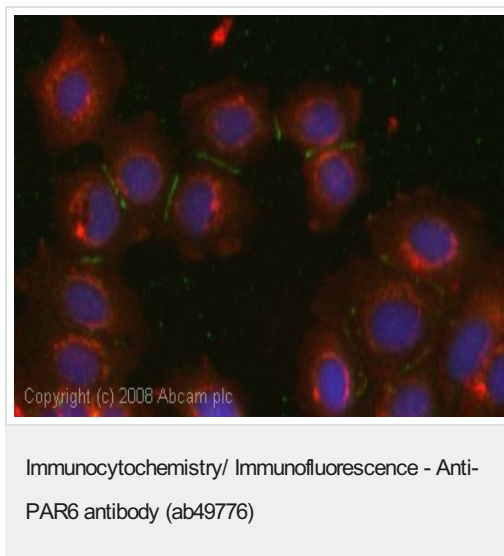
### Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 37 kDa

**Observed band size:** 37 kDa



ICC/IF image of ab49776 stained human MCF7 cells. The cells were methanol fixed (5 min), permeabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab49776, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in HeLa and HEK 293 cells.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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