abcam

Product datasheet

Anti-P2X3 antibody ab75453

3 Images

Overview

Product name	Anti-P2X3 antibody
Description	Rabbit polyclonal to P2X3
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Pig, Zebrafish
Immunogen	Synthetic peptide corresponding to Human P2X3 aa 250-350 conjugated to keyhole limpet haemocyanin. (Peptide available as ab94545)
Positive control	This antibody gave a positive signal in human testis tissue lysate and in the following whole cell lysates: Jurkat; HepG2.

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 **ab75453** in the following tested applications.

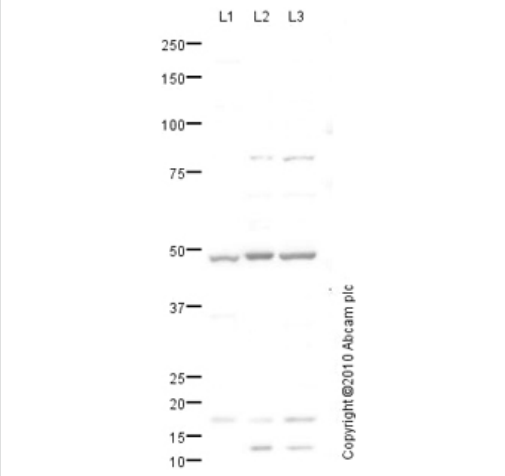
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		Use a concentration of 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 49 kDa (predicted molecular weight: 44 kDa).

Target

Function	Receptor for ATP that acts as a ligand-gated ion channel.
Sequence similarities	Belongs to the P2X receptor family.
Cellular localization	Membrane.

Images



Western blot - Anti-P2X3 antibody (ab75453)

All lanes : Anti-P2X3 antibody (ab75453) at 1 µg/ml

Lane 1 : Human testis tissue lysate - total protein (ab30257)
Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

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

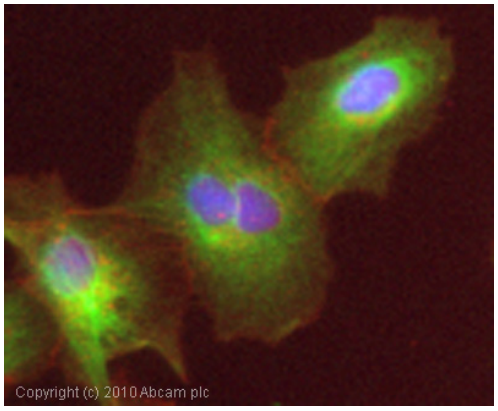
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 44 kDa
Observed band size: 49 kDa
why is the actual band size different from the predicted?
Additional bands at: 12 kDa, 18 kDa, 78 kDa. We are unsure as to the identity of these extra bands.

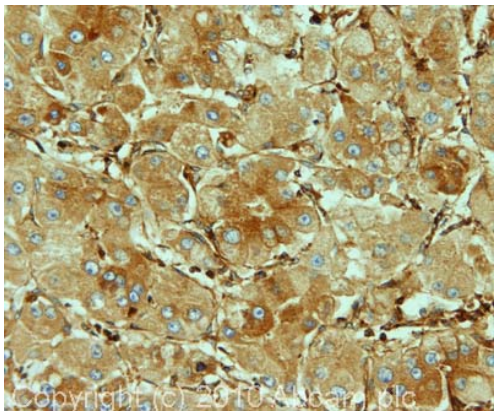
Exposure time: 1 minute

Human P2X purinoceptor 3 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Immunocytochemistry/ Immunofluorescence - Anti-P2X3 antibody (ab75453)

ICC/IF image of ab75453 stained HepG2 cells. The cells were 4% PFA 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 (ab75453, 5µg/ml) overnight at +4°C. 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) 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% PFA fixed (10 min) HeLa, Hek293 and MCF7 cells at 5µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P2X3 antibody (ab75453)

IHC image of P2X3 staining in human liver carcinoma 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 ab75453, 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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