


Product datasheet

Anti-Connexin 45 / GJA7 antibody [5B9.2] ab78408

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Overview

<b>Product name</b>	Anti-Connexin 45 / GJA7 antibody [5B9.2]
<b>Description</b>	Mouse monoclonal [5B9.2] to Connexin 45 / GJA7
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Rabbit, Human <b>Predicted to work with:</b> Mouse, Cow, Dog, Pig, Chinese hamster 
<b>Immunogen</b>	Synthetic peptide: QAYSHQNNPHGPRE conjugated to KLH, corresponding to amino acids 354-367 of Human Connexin 45/ GJA7 <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Epitope</b>	Near C terminal, cytoplasmic.
<b>Positive control</b>	Connexin 45 / GJA7 transfected rat C6 cells.
<b>General notes</b>	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: 0.25M Sodium chloride, 0.02M PBS, pH 7.6
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	5B9.2
<b>Isotype</b>	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab78408** in the following tested applications.

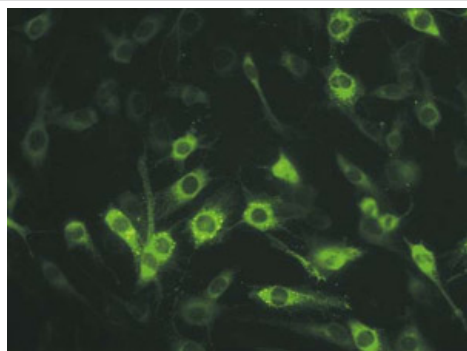
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1-2µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
ICC		Use at an assay dependent concentration.

## Target

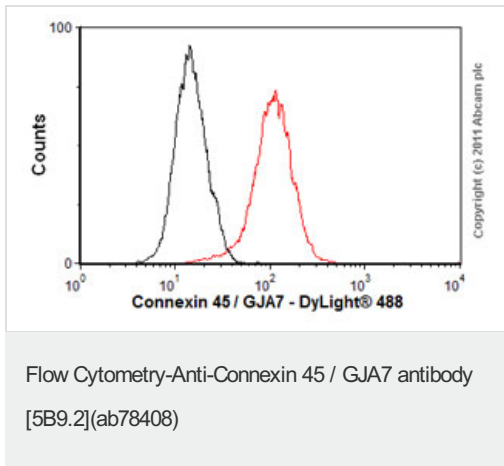
<b>Function</b>	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.
<b>Sequence similarities</b>	Belongs to the connexin family. Gamma-type subfamily.
<b>Cellular localization</b>	Cell membrane. Cell junction > gap junction.

## Images



ab78408 staining Connexin 45 / GJA7 transfected rat C6 cells by Immunocytochemistry.

Immunocytochemistry - Connexin 45 / GJA7 antibody [5B9.2] (ab78408)



Overlay histogram showing HeLa cells stained with ab78408 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab78408, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive result in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween for 20 min used under the same conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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