

## Product datasheet

### Anti-MRP2 antibody [M2III-5] ab15603

KO VALIDATED

[13 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Anti-MRP2 antibody [M2III-5]
<b>Description</b>	Mouse monoclonal [M2III-5] to MRP2
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody does not cross-react with the human MDR1 P-gp, MRP1, MRP3, or MRP5 gene products.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse
<b>Immunogen</b>	This antibody was raised against a fusion protein of the bacterial maltose binding protein and rat MRP2, containing the 202-amino acid C terminal end of the transporter protein.
<b>Epitope</b>	ab15603 reacts with an internal epitope of MRP2; a 190-200 kD transmembrane protein earlier known as the canalicular multi-organic anion transporter cMOAT, absent in patients with the Dubin-Johnson syndrome.
<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

<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: 7.3 Preservative: 0.1% Sodium azide Constituents: Tissue culture supernatant, 0.7% BSA
<b>Purity</b>	Tissue culture supernatant

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	M2III-5
<b>Isotype</b>	IgG2b

## Applications

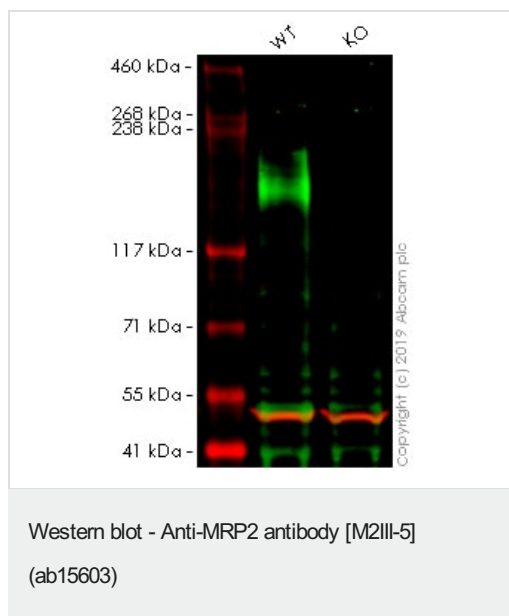
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab15603 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/20 - 1/50. Predicted molecular weight: 185.4 kDa.

## Target

<b>Function</b>	Mediates hepatobiliary excretion of numerous organic anions. May function as a cellular cisplatin transporter.
<b>Tissue specificity</b>	Found on the apical membrane of polarized cells in liver, kidney and intestine. The highest expression is found in liver.
<b>Involvement in disease</b>	Defects in ABCC2 are the cause of Dubin-Johnson syndrome (DJS) [MIM:237500]. DJS is an autosomal recessive disorder characterized by conjugated hyperbilirubinemia, an increase in the urinary excretion of coproporphyrin isomer I, deposition of melanin-like pigment in hepatocytes, and prolonged retention of sulfobromophthalein, but otherwise normal liver function.
<b>Sequence similarities</b>	Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily. Contains 2 ABC transmembrane type-1 domains. Contains 2 ABC transporter domains.
<b>Cellular localization</b>	Membrane.

## Images



**All lanes :** Anti-MRP2 antibody [M2III-5] (ab15603) at 1/20 dilution

**Lane 1 :** Wild-type A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 2 :** ABCC2 knockout A549 (Human lung carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 185.4 kDa

**Lanes 1 - 2:** Merged signal (red and green). Green - ab15603 observed at 210 kDa. Red - loading control, **ab52866**, observed at 50 kDa.

ab15603 was shown to recognize ABCC2 in wild-type A549 cells as signal was lost at the expected MW in ABCC2 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and ABCC2 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab15603 and **ab52866** (Rabbit anti-alpha Tubulin loading control) were incubated overnight at 4°C at 1/20 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

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

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