

Supplementary information

TITLE: Molecular analysis of the massive GSH transport mechanism mediated by the human Multidrug Resistant Protein 1/ABCC1

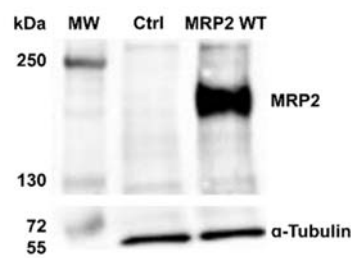
AUTHORS: Rachad Nasr, Doriane Lorendeau, Ruttiros Khonkarn, Lauriane Dury, Basile Pérès, Ahcène Boumendjel, Jean-Claude Cortay, Pierre Falson, Vincent Chaptal, Hélène Baubichon-Cortay

Supplementary Table 1

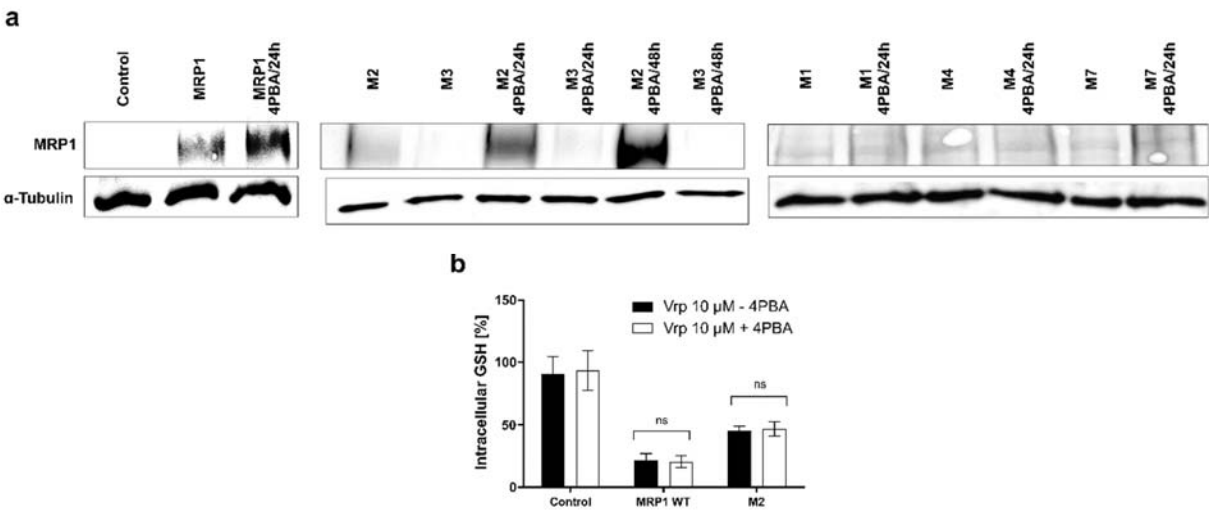
Exchanged nucleotide fragments in MRP1 with the corresponding MRP2 fragments for MRP1/MRP2 chimeras constructs. The fragment A includes the fragment B corresponding to the sequence of MRP1 to exchange by the sequence of MRP2.

Chimera name	Exchanged Nucleotide Fragment B	MRP1 limits of Nucleotide Fragment A	Restriction enzymes
M1	MRP1 ⁵⁰¹ G- ⁸³⁹ G → MRP2 ⁴⁸³ A- ⁸⁰⁰ A	1 - 846	Nhe1/BamH1
M2	MRP1 ⁸⁴⁶ G- ⁹⁴⁷ G → MRP2 ⁸⁰⁷ G- ⁹⁰⁸ T	846 - 1901	BamH1/Bsu36I
M3	MRP1 ⁹⁴⁸ T- ¹¹⁸⁷ G → MRP2 ⁹⁰⁹ C- ¹¹⁴⁸ G	846 - 1871	BamH1/Bsu36I
M4	MRP1 ¹⁴⁷⁶ G- ¹⁸⁴⁷ G→ MRP2 ¹⁴³⁷ A- ¹⁸⁰⁸ G	846 - 1871	BamH1/Bsu36I
M5	MRP1 ²⁶⁰⁴ T- ²⁷⁸⁹ C→ MRP2 ²⁵⁵³ T- ²⁷⁷⁴ T	1871 - 3273	Bsu36I/SexA1
M6	MRP1 ²⁷⁹⁰ A- ³⁰³⁸ A→ MRP2 ²⁷⁷⁵ G- ³⁰³² C	1871 - 3246	Bsu36I/SexA1
M7	MRP1 ³²⁵² T- ³⁵⁶⁹ C→ MRP2 ³²⁴⁶ G- ³⁵⁶³ T	3237 - 4083	SexA1/Cla1
M8	MRP1 ³⁵⁷⁰ C- ³⁸⁰⁹ T → MRP2 ³⁵⁶⁴ T- ³⁸⁰³ G	3237 - 4083	SexA1/Cla1

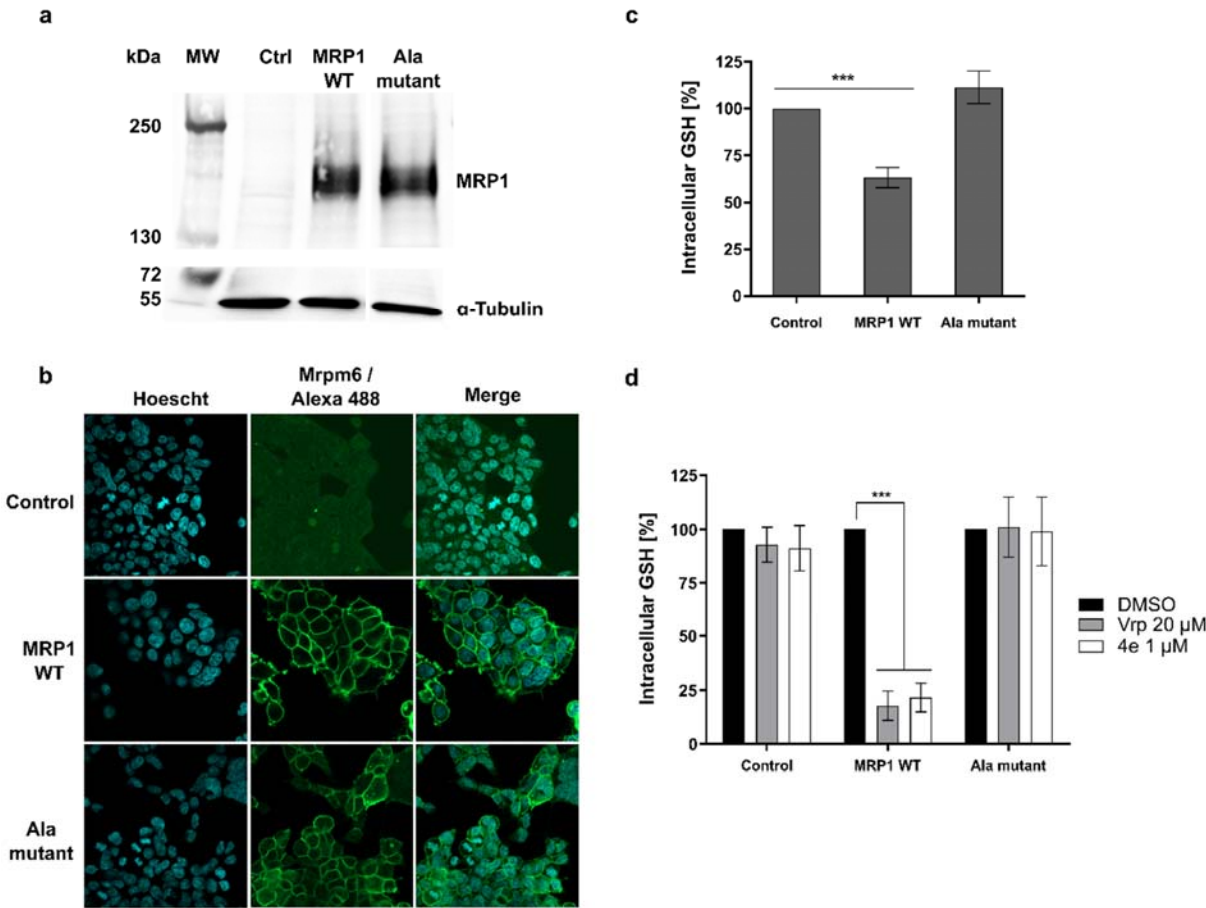
Supplementary Figure S1



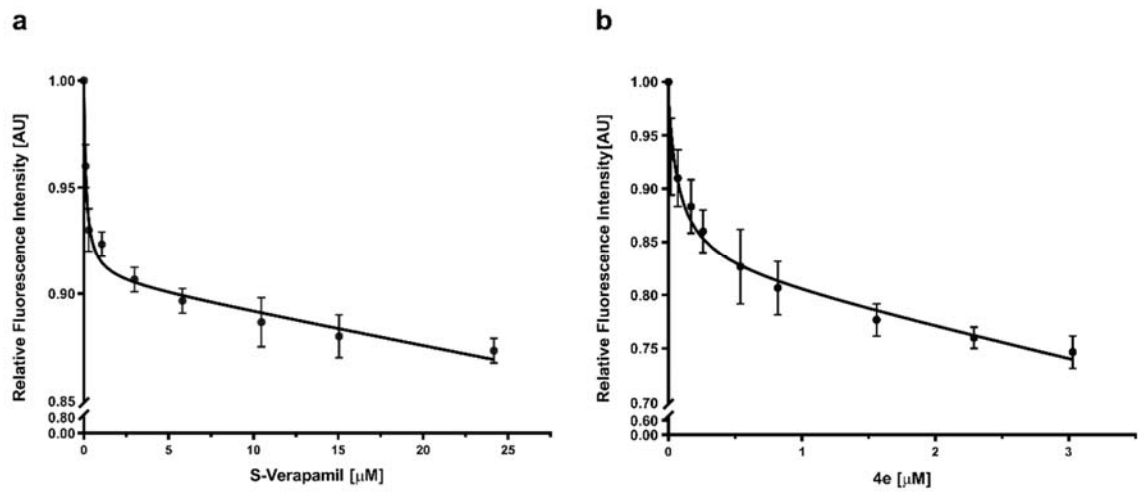
Supplementary Figure S2



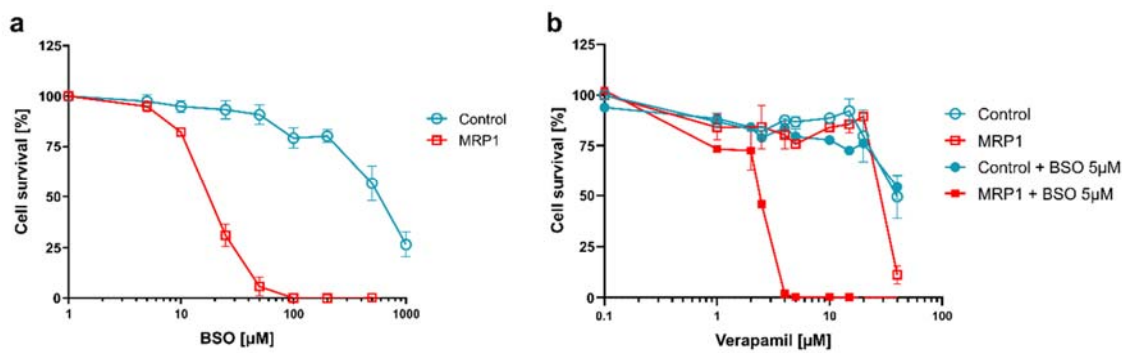
Supplementary Figure S3



Supplementary Figure S4

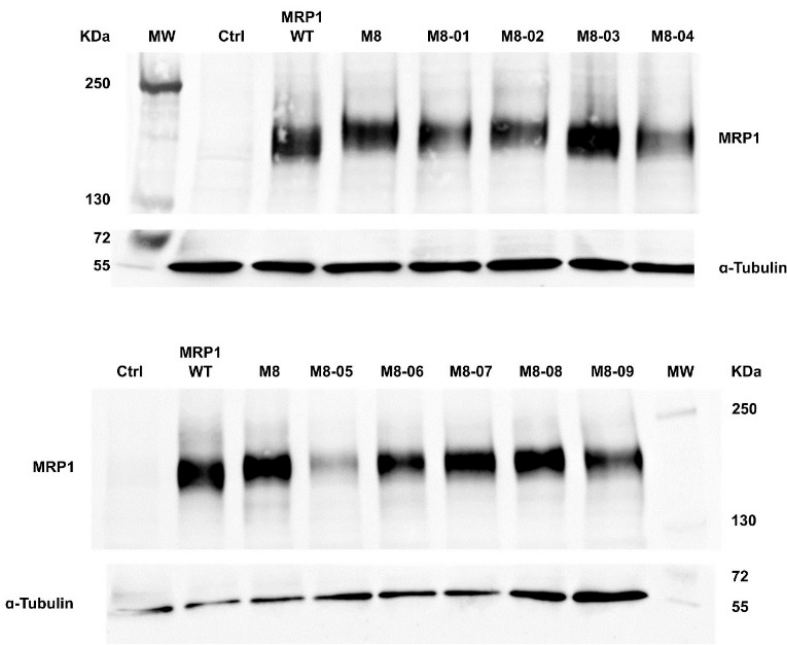


Supplementary Figure S5

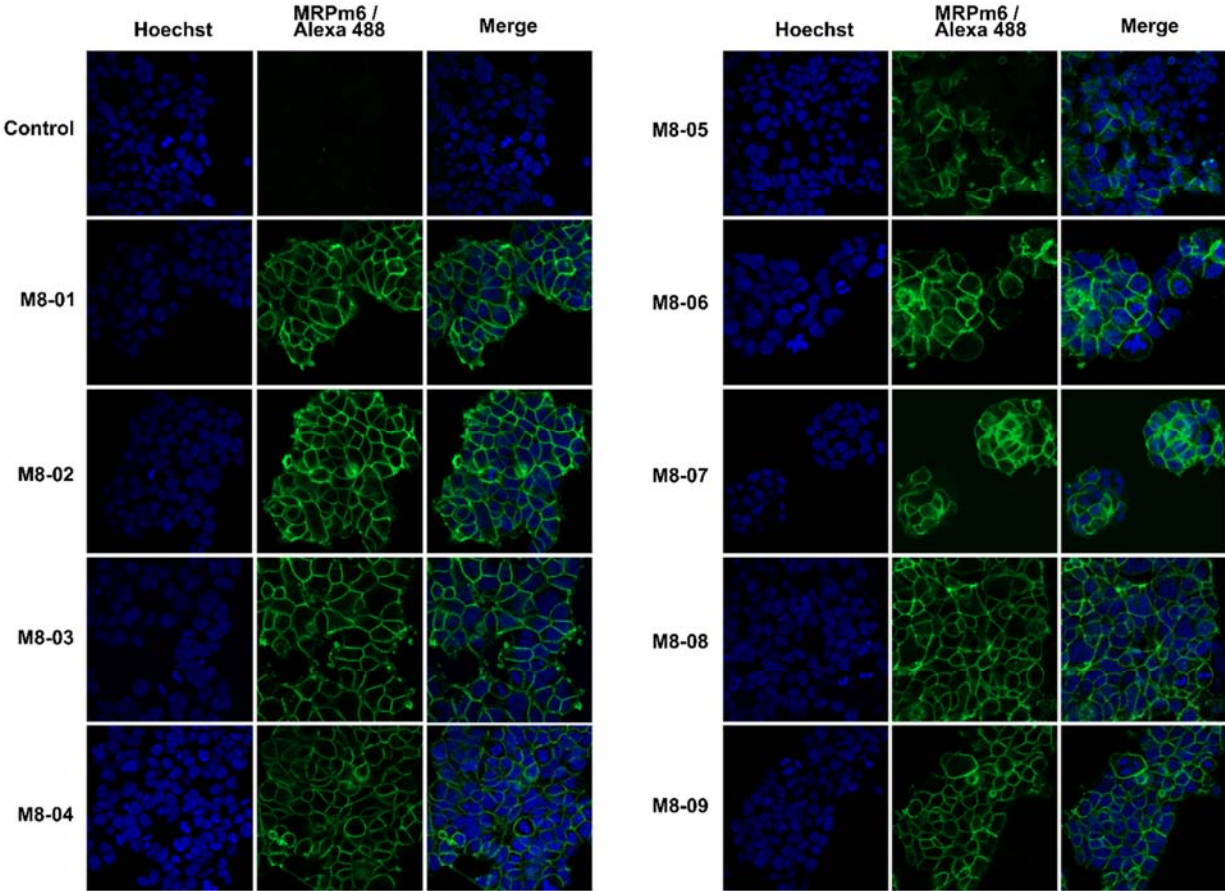


Supplementary Figure S6

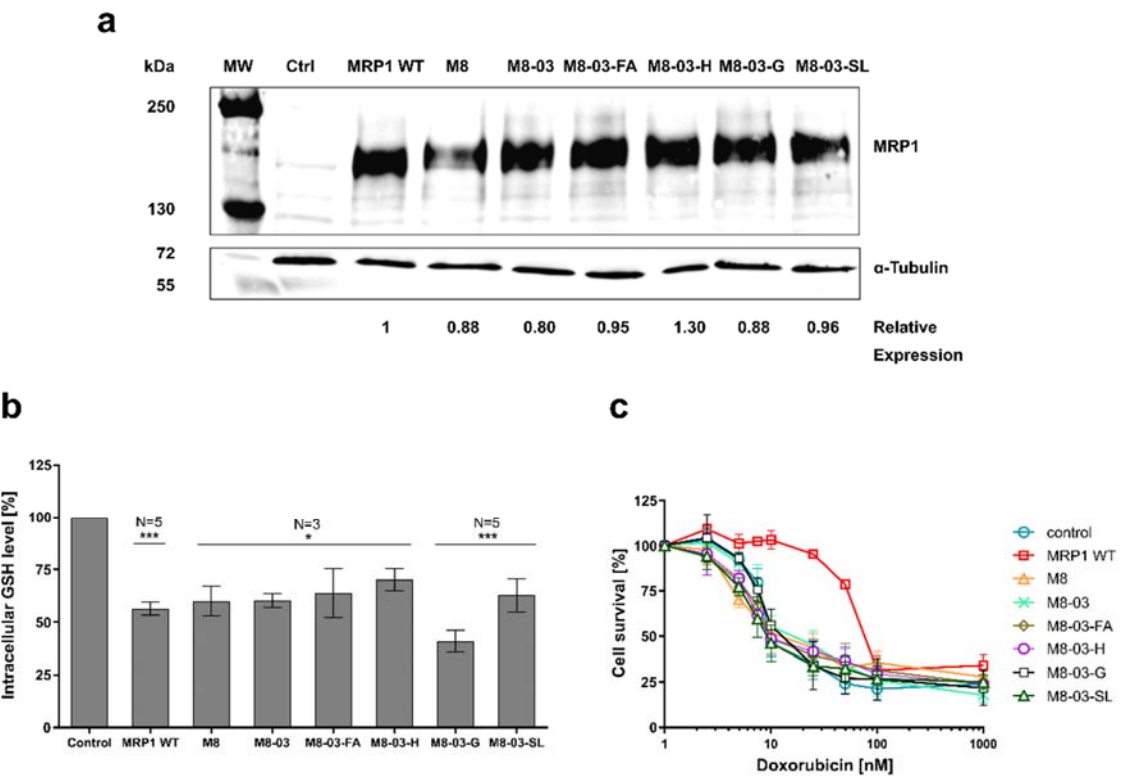
a



b

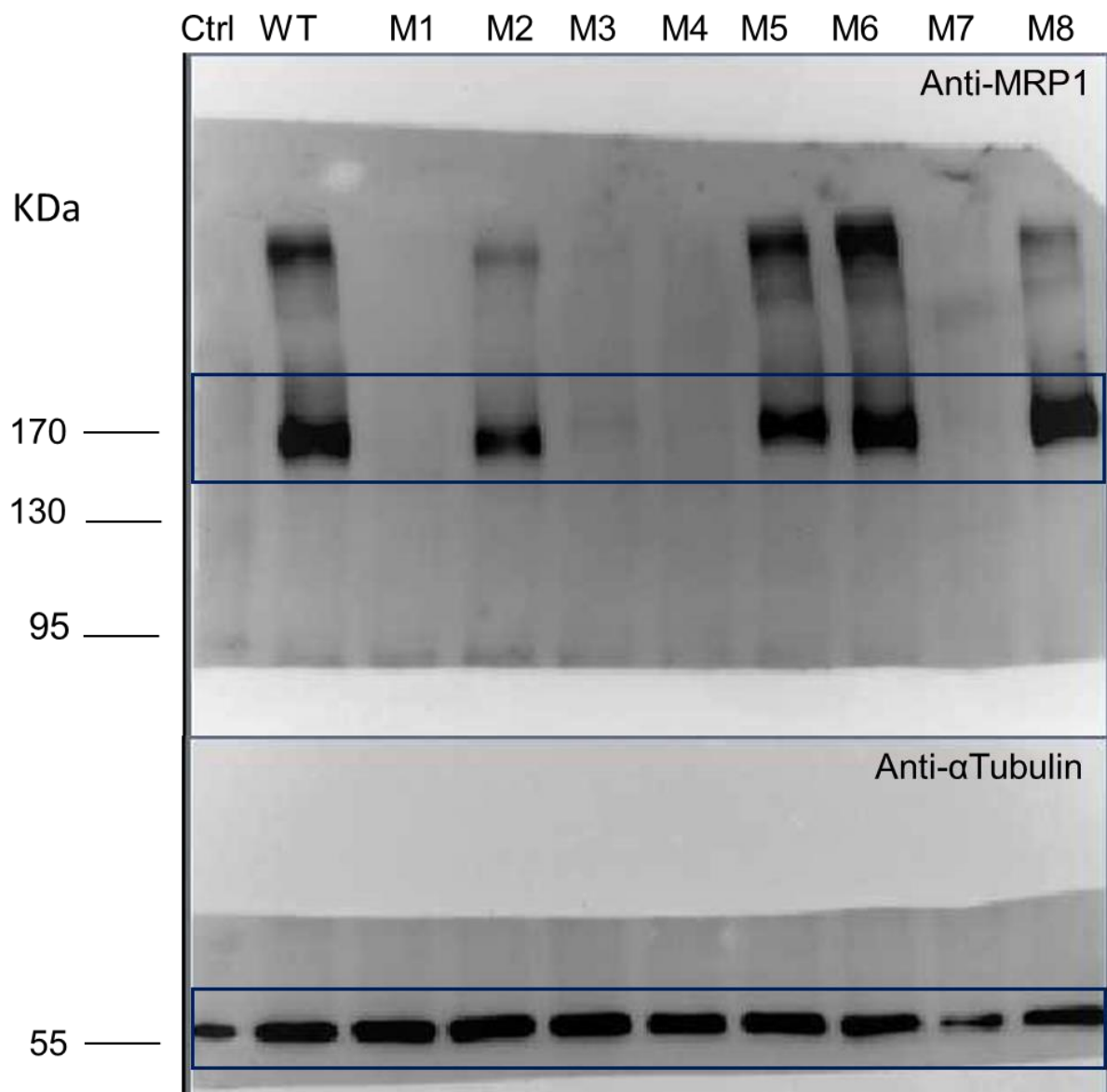


Supplementary Figure S7



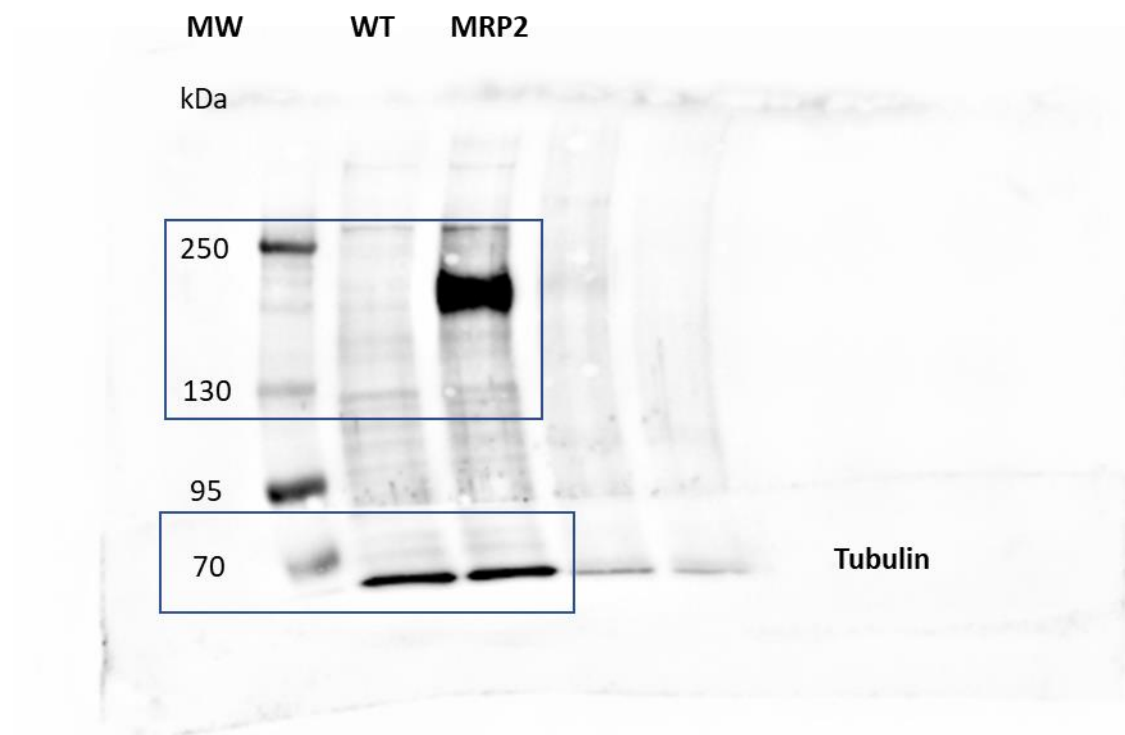
Original, unprocessed versions of the western-blot

Figure 1



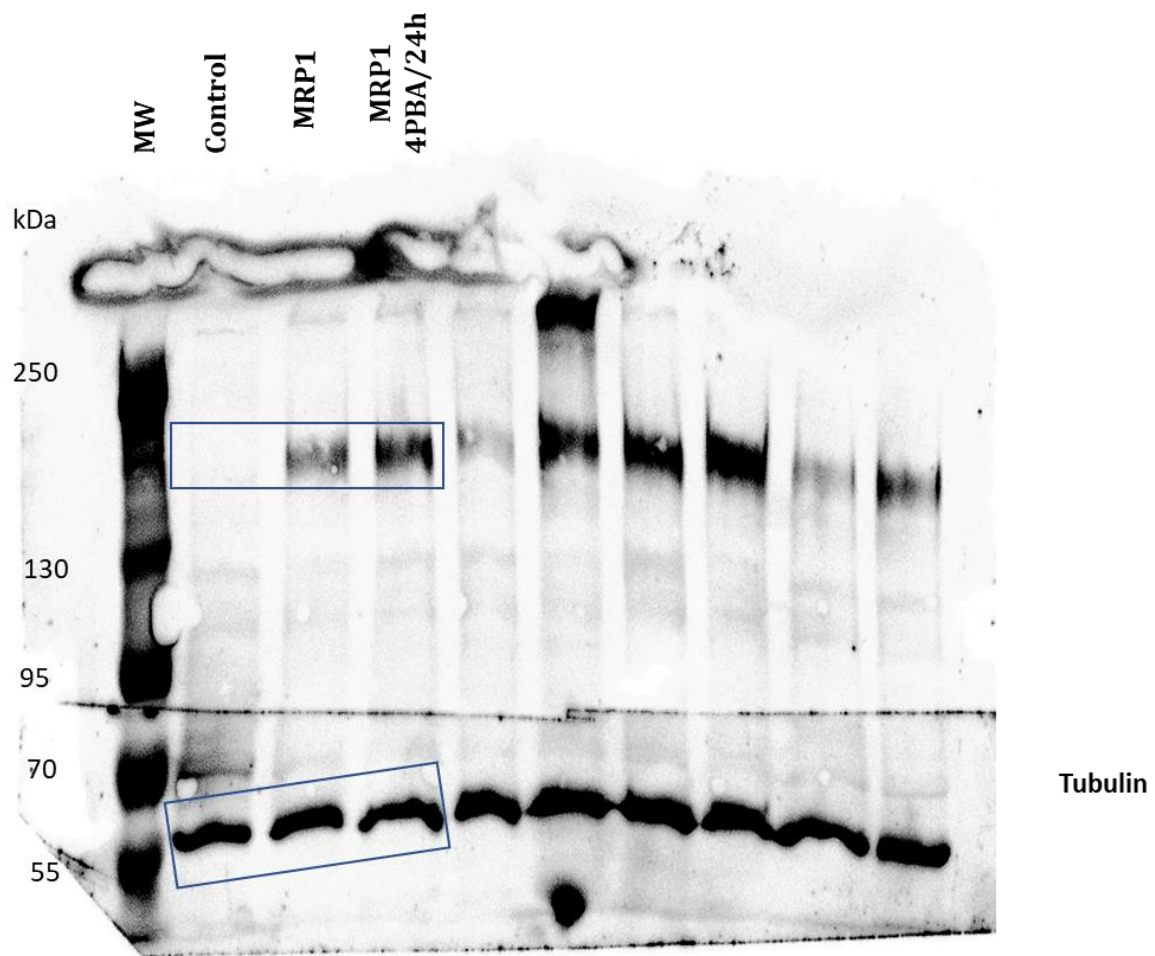
The nitrocellulose membrane was cut after the marker 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal α -tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented.

Supplementary Figure S1



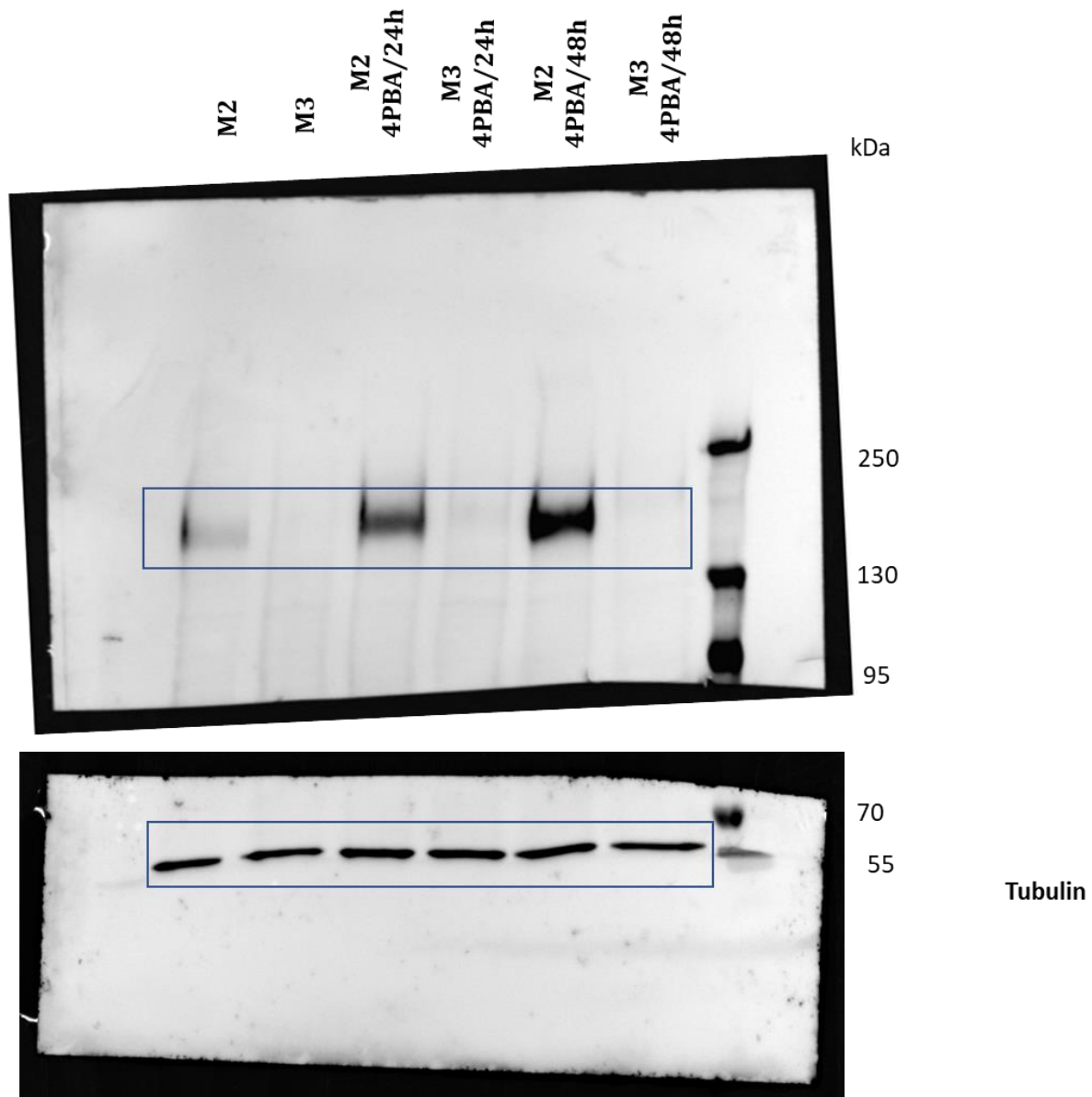
The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP2 monoclonal antibody M2I-4, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented.

Supplementary Figure S2a



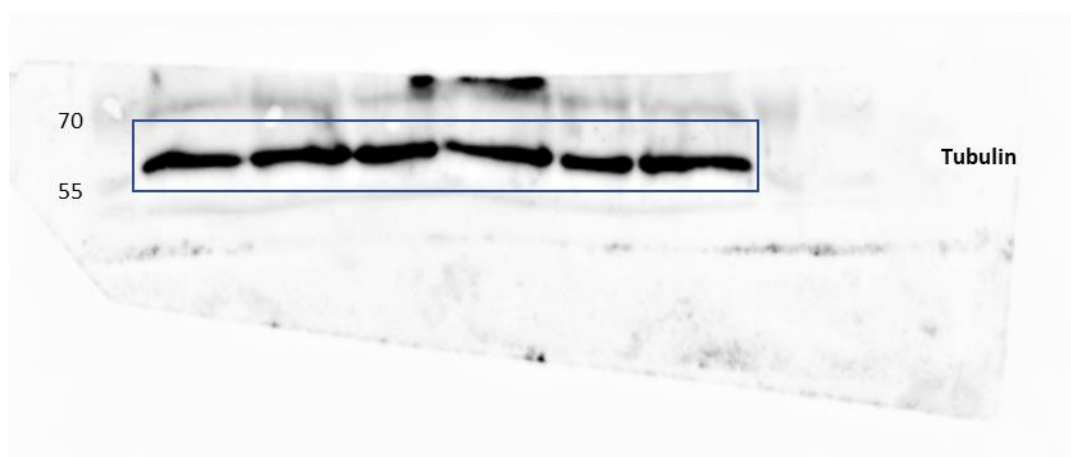
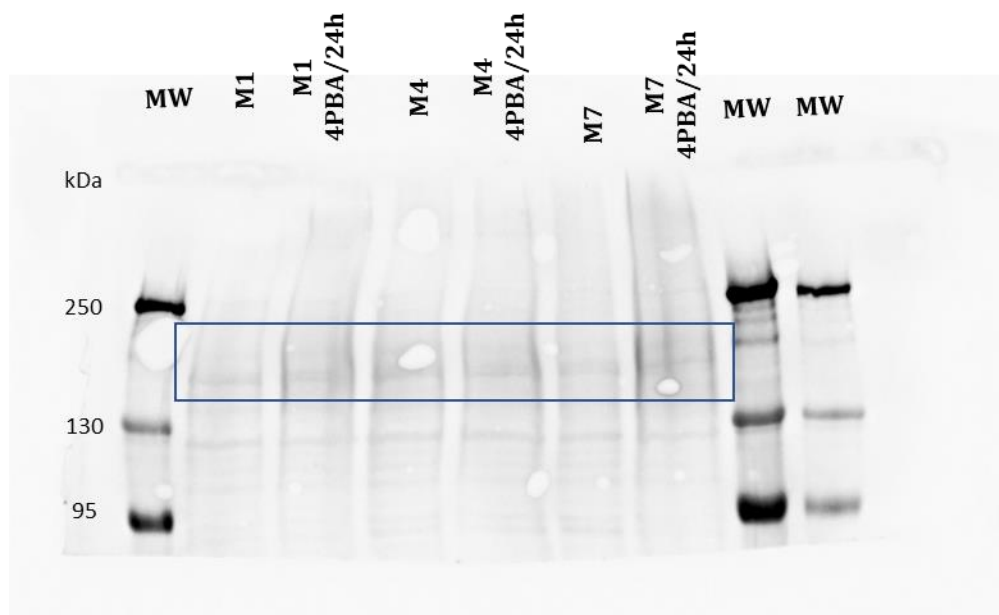
The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented in Figure S2a.

Supplementary Figure S2a



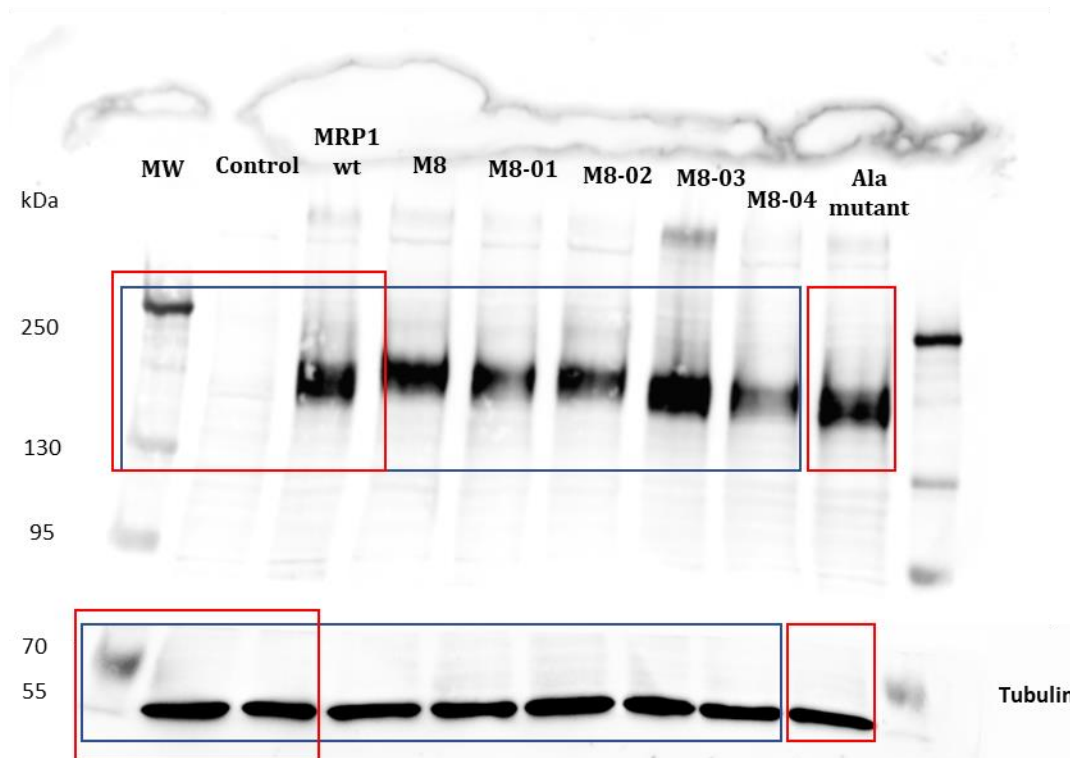
The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented.

Supplementary Figure S2a



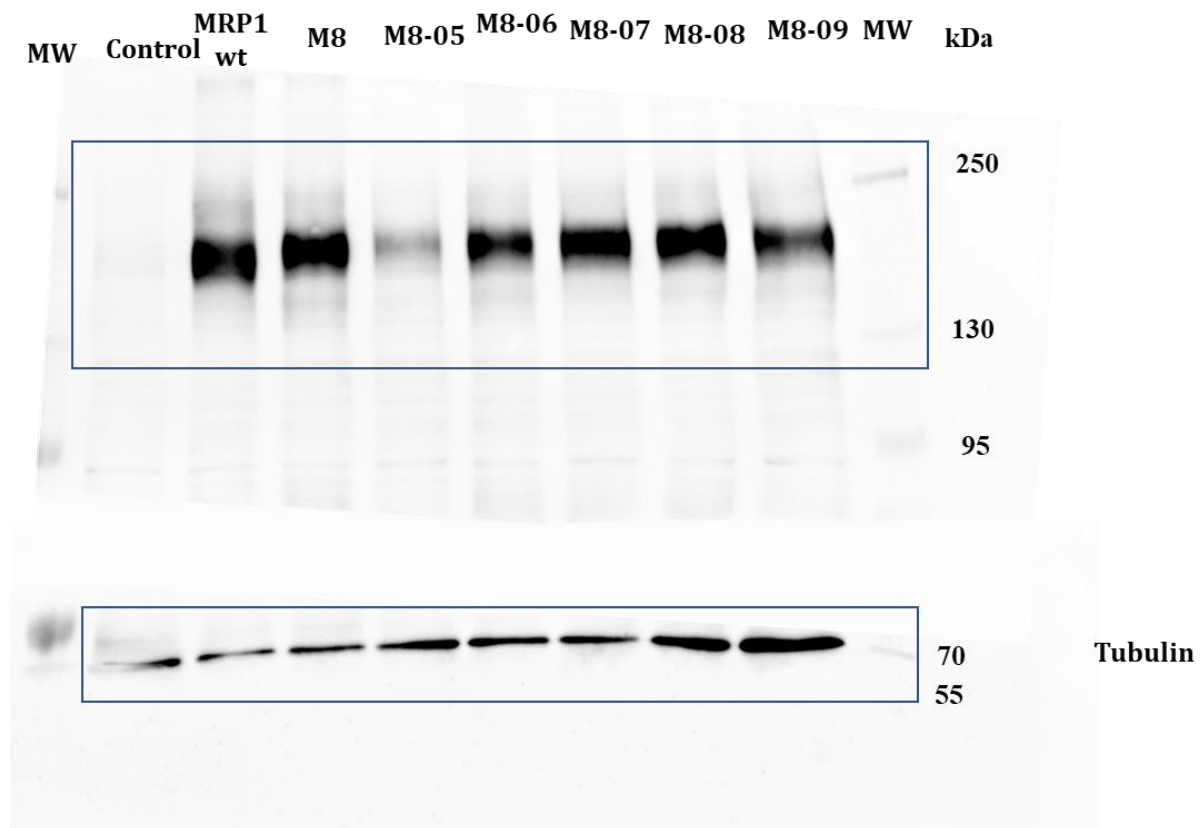
The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented.

Supplementary Figures S3a and S6a



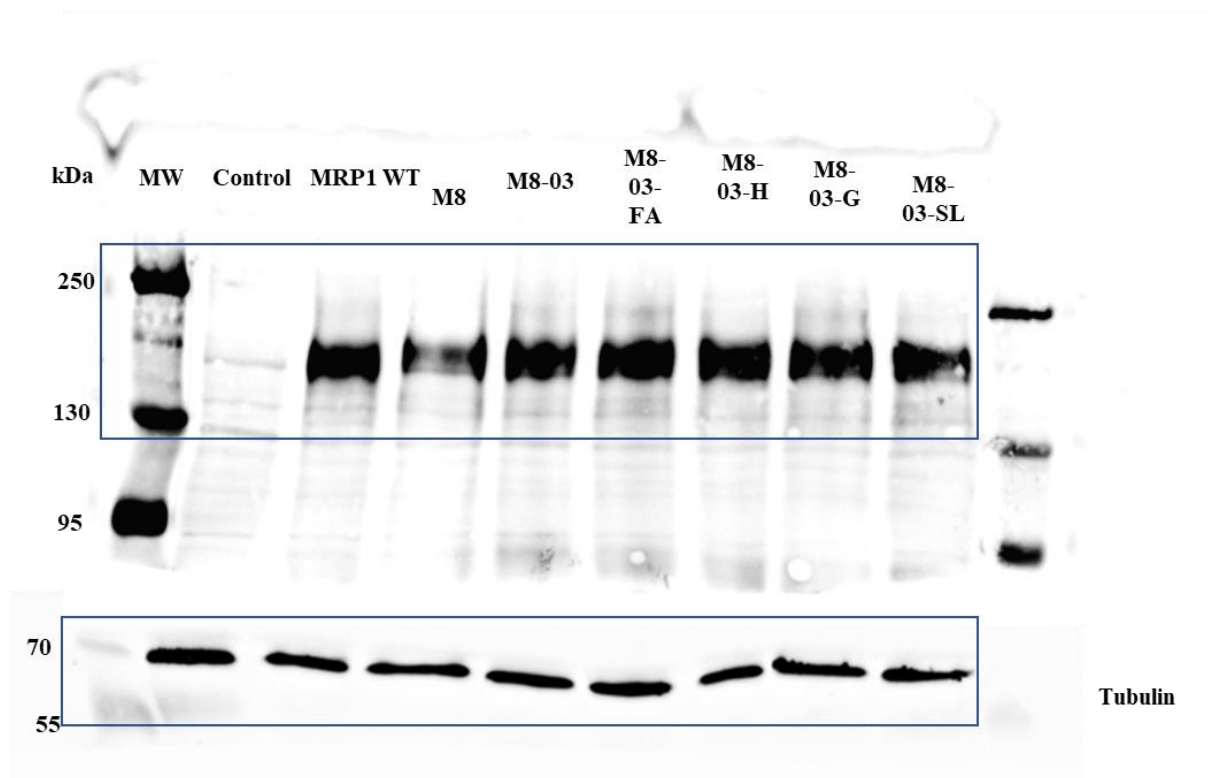
The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the red squares were represented for figure S3a and inside the blue squares were presented for figure S6a.

Supplementary Figure S6a



The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented.

Supplementary Figure S7



The nitrocellulose membrane was cut in between the marker 70 and 95 kDa and the two parts were separately probed with either the anti-MRP1 monoclonal antibody MRPm6, or a polyclonal alpha-tubulin antibody as loading control. For the publication only the parts inside the blue squares were presented.