P-Glycoprotein Monoclonal Antibody (C219)

Catalog Number MA1-26528

Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>250 µL</td>
</tr>
<tr>
<td>Host/Isotope</td>
<td>Mouse / IgG2a</td>
</tr>
<tr>
<td>Class</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Type</td>
<td>Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>C219</td>
</tr>
<tr>
<td>Immunogen</td>
<td>SDS-solubilized plasma membranes of a multidrug resistant Chinese hamster ovary (CHO) cell line and a human cell line.</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td>Purification</td>
<td>purified</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>PBS with 1% BSA</td>
</tr>
<tr>
<td>Contains</td>
<td>&lt;0.1% sodium azide</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>-20°C, Avoid Freeze/Thaw Cycles</td>
</tr>
</tbody>
</table>

Species Reactivity

- Tested species reactivity: Hamster, Human, Mouse, Rat
- Published species reactivity: Dog, Rat, Human

Tested Applications

- Flow Cytometry (Flow): 5-10 µg for 1x10^6 cells
- Immunocytochemistry (ICC): Assay Dependent
- Immunofluorescence (IF): Assay-dependent
- Immunohistochemistry (Frozen (IHC (F))): 5-10 µg/ml
- Immunohistochemistry (Paraffin (IHC (P))): 1-10 µg/ml
- Immunoprecipitation (IP): Assay Dependent
- Western Blot (WB): 1-10 µg/ml

Published Applications

- Western Blot (WB): See 4 publications below
- Immunocytochemistry (ICC): See 1 publications below

Product specific information

MA1-26528 detects P-Glycoprotein from human, hamster, mouse and rat samples. MA1-26528 is expected to cross react with a wide range of mammals due to sequence homology.

MA1-26528 has been successfully used in immunoprecipitation, immunocytochemistry, immunohistochemistry, flow cytometry, and Western blot procedures.

The MA1-26528 immunogen is SDS-solubilized plasma membranes of a multidrug resistant Chinese hamster ovary (CHO) cell line and a human cell line. This antibody recognizes a highly conserved internal sequence (VQEALD and VQAALD) corresponding to the C- and N-terminal regions, respectively, from both MDR1 and MDR3 isoforms of P-Glycoprotein.


Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.
### PubMed References For P-Glycoprotein Monoclonal Antibody (C219)

#### 4 Western Blot References

<table>
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<tr>
<td>Rat / 1:75</td>
<td>MA1-26528 was used in immunohistochemistry - frozen section and western blot to develop a method to increase the intestinal transport of octreotide.</td>
</tr>
<tr>
<td>Human / Not Cited</td>
<td>MA1-26528 was used in western blot to investigate the relationship between PP5/PPP2R3C and P-gp.</td>
</tr>
<tr>
<td>Human / 1:50</td>
<td>MA1-26528 was used in western blot to study the ability of novel doxorubicin liposome complexes plus ultrasound to overcome the multidrug resistance of human breast cancer cells.</td>
</tr>
<tr>
<td>Human / 1:20</td>
<td>MA1-26528 was used in western blot to study cord blood as a source of circulating endothelial progenitor cells that can be directed towards specialized endothelial phenotypes.</td>
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#### 1 Immunocytochemistry References

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<td>Dog / 1:100</td>
<td>MA1-26528 was used in immunocytochemistry to study the ability of common aquatic environmental contaminants to inhibit MDR-1.</td>
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</tbody>
</table>

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PubMed References:

- **Western Blot References**
  - Rat / 1:75: MA1-26528 was used in immunohistochemistry - frozen section and western blot to develop a method to increase the intestinal transport of octreotide. ([PubMed Article](http://dx.doi.org/10.3892/etm.2016.3808))
- Human / Not Cited: MA1-26528 was used in western blot to investigate the relationship between PP5/PPP2R3C and P-gp. ([PubMed Article](http://dx.doi.org/10.1016/j.canlet.2013.12.007))
- Human / 1:50: MA1-26528 was used in western blot to study the ability of novel doxorubicin liposome complexes plus ultrasound to overcome the multidrug resistance of human breast cancer cells. ([PubMed Article](http://dx.doi.org/10.1016/j.jconrel.2013.11.018))
- Human / 1:20: MA1-26528 was used in western blot to study cord blood as a source of circulating endothelial progenitor cells that can be directed towards specialized endothelial phenotypes. ([PubMed Article](http://dx.doi.org/10.1371/journal.pone.0084179))

- **Immunocytochemistry References**
  - Dog / 1:100: MA1-26528 was used in immunocytochemistry to study the ability of common aquatic environmental contaminants to inhibit MDR-1. ([PubMed Article](http://dx.doi.org/10.1002/etc.2493))