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# P-Glycoprotein Monoclonal Antibody (F4)

#### **Product Details**

| Size               | 500 µL   |
|--------------------|--|
| Species Reactivity | Hamster, Human   |
| Published Species  | Rat, Human, Mouse  |
| Host/Isotype       | Mouse / IgG1   |
| Class              | Monoclonal   |
| Туре               | Antibody   |
| Clone              | F4   |
| Conjugate          | Unconjugated   |
| Immunogen          | Human and hamster drug-resistant viable cells followed by crude plasma membranes |
| Form               | Liquid   |
| Concentration      | 0.2 mg/mL  |
| Purification       | Protein G  |
| Storage buffer     | PBS, pH 7.4, with 0.2% BSA   |
| Contains           | 0.09% sodium azide   |
| Storage conditions | 4° C   |
| RRID               | AB_10979045  |
|                    |  |

| Applications                              | Tested Dilution | Publications    |
|---|-----------------|-----------------|
| Western Blot (WB)                         | 1:10-1:200      | 12 Publications |
| Immunohistochemistry (IHC)                | -               | 1 Publication   |
| Immunohistochemistry (Paraffin) (IHC (P)) | -               | 1 Publication   |
| Immunocytochemistry (ICC/IF)              | 1:10-1:100      | 12 Publications |
| Flow Cytometry (Flow)                     | 2 µg/test       | 2 Publications  |
| Miscellaneous PubMed (Misc)               | -               | 1 Publication   |

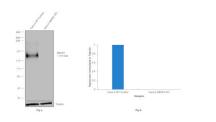
#### **Product Specific Information**

MA5-13854 targets p170 in FACS, WB and ICC/IF applications and shows reactivity with Hamster and Human samples. This antibody does not react with mouse tissue in Western blot applications.

The MA5-13854 immunogen is human and hamster drug-resistant viable cells followed by crude plasma membranes.

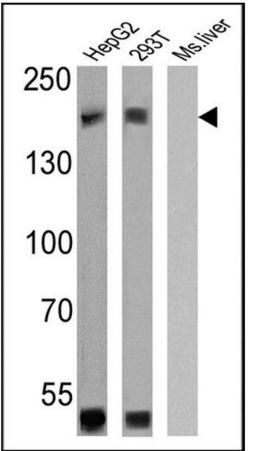
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### Product Images For P-Glycoprotein Monoclonal Antibody (F4)



#### P-Glycoprotein Antibody (MA5-13854)

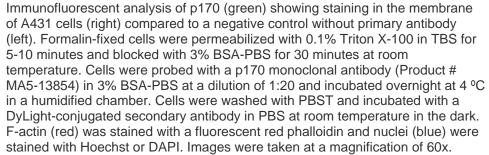
Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein inABCB1 KO cell line compared to control cell line using P-Glycoprotein Monoclonal Antibody (F4) (Product # MA513854). {KO}



#### P-Glycoprotein Antibody (MA5-13854) in WB

Western blot analysis of p170 was performed by loading 25 µg of HepG2 (lane 1), 293T (lane 2) and mouse liver (lane 3) cell lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a p170 monoclonal antibody (Product # MA5-13854) at a dilution of 1:100 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~170 kDa in HepG2 and 293T cells.

# P-Glycoprotein Antibody (MA5-13854) in ICC/IF



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#### 29 References

#### Western Blot (12)

| Acta naturae<br>Mechanisms of P-Glycoprotein Regulation Under Exogenous and<br>Endogenous Oxidative Stress In Vitro.<br>"MA5-13854 was used in Western Blotting to investigate the mechanisms of P-glycoprotein (P-gp) transporter<br>regulation in Caco-2 cells under exogenous and endogenous oxidative stress (OS)."<br>Authors: Abalenikhina YV,Shchulkin AV,Mylnikov PY,Rokunov ED,Yakusheva EN | Year<br>2022<br>Species<br>Human<br>Dilution<br>1:200 |
|--|---|
| International journal of molecular sciences<br>The Ubiquitin E3 Ligase Nedd4 Regulates the Expression and Amyloid-   | <b>Year</b><br>2022                                   |
| Peptide Export Activity of P-Glycoprotein.   |   |
| "Published figure using P-Glycoprotein monoclonal antibody (Product # MA5-13854) in Western Blot"  |   |
| Authors: Chai AB, Callaghan R, Gelissen IC   |   |

View more WB references on thermofisher.cn

## Immunohistochemistry (1)

| Acta orthopaedica et traumatologica turcica   | Year            |  |
|---|-----------------|--|
| [The effect of resistance-related proteins on the prognosis and survival of patients with osteosarcoma: an immunohistochemical analysis]. | 2009<br>Species |  |
| "MA5-13854 was used in immunohistochemistry to examine the prognostic significance of multiple genes in osteosarcoma"                     | Human           |  |
| Authors: Ozger H,Eralp L,Atalar AC,Toker B,Esberk Ate L,Sungur M,Bilgiç B,Ayan I  |                 |  |

#### Immunohistochemistry (Paraffin) (1)

| Gland surgery  | Year             |  |
|--|------------------|--|
| Detection and analysis of multiple biomarkers in ovarian cancer: clinical  | 2020             |  |
| significance in diagnosis, treatment, and prognosis evaluation.  | Species<br>Human |  |
| "MA5-13854 was used in Immunohistochemistry (Paraffin) to explore the clinical significance of CA125, CK7, CK20, ER, PR, C-erbb2, and P-gp in ovarian cancer." | numan            |  |
| Authors: Ji R,Li Y,He C,Zhu X,He A,Lu Y  |                  |  |

#### More applications with references on thermofisher.cn

ICC/IF (12) Flow (2) Misc (1)

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