



# Mouse anti Multi-Drug Resistance Marker (P-Glycoprotein) Monoclonal Antibody

Alternative Name(s): P-Glycoprotein

## Order Information

- **Description:** Multi-Drug Resistance Marker (P-Glycoprotein)
- **Catalogue:** 603-150
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ABM137
- **Application:** IHC(P)
- **Reactivity:** Hu

## **ANTIGEN PREPARATION**

A recombinant protein containing four tandem repeats of the amino acid sequences close to C-terminus .

## **BACKGROUND**

Multi-Drug Resistance Marker (P-Glycoprotein) is a 170 kD cell membrane protein of the multi-drug resistance gene, MDR-1. Studies have linked the presence of P-Glycoprotein with resistance to a wide variety of chemotherapeutic agents. P-Glycoprotein is also found in various concentrations in most normal tissues, suggesting that the primary role for this protein is in normal secretion of physiological metabolites. This mouse monoclonal antibody reacts with a 170 kDa p-Glycoprotein. P-glycoprotein exists as a soluble and membrane associated form. Soluble p-glycoprotein is detected in extracellular fluids of cancer patients, such as malignant ascites and serum.

## **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

## **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

## **SPECIFICITY**

This antibody recognizes human Multi-Drug Resistance Marker (P-Glycoprotein) protein. The other species are not tested.

## **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

## **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1  $\mu\text{g}/\text{ml}$
- ELISA: 0.01-0.1  $\mu\text{g}/\text{ml}$
- Immunoprecipitation: 2-5  $\mu\text{g}/\text{ml}$
- IHC: 2-10  $\mu\text{g}/\text{ml}$
- Flow cytometry: Not tested
- Molecular Weight: 170.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

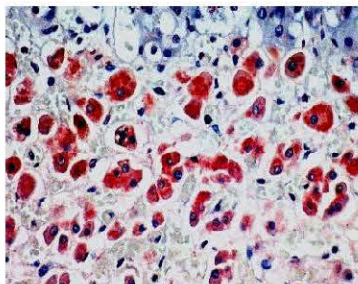
\*Optimal dilutions should be determined by researchers for the specific applications.

## **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



**IHC:** Human adrenal gland tissue stained with Anti-p170 monoclonal antibody at 1:100 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

Michieli M<sup>1</sup>, Damiani D, Geromin A, Michelutti A, Fanin R, Raspadori D, Russo D, Visani G, Dinota A, Pileri S, et al. Overexpression of multidrug resistance-associated p170-glycoprotein in acute non-lymphocytic leukemia. Eur J Haematol. 1992 Feb;48(2):87-92.

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