Datasheet for ABIN6136341

# anti-ABCB1 antibody (AA 630-710)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | ABCB1 |
| Binding Specificity: | AA 630-710 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ABCB1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

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|---|---|
| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 630-710 of human P Glycoprotein (NP_000918.2). |
| Sequence: | TAGNEVELEN AADESKSEID ALEMSSNDSR SSLIRKRSTR RSVRGSQAQD RKLSTKEALD ESIPPVSFWR IMKLNLTEWP Y |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Polyclonal Antibodies |
| Purification: | Affinity purification |

## Target Details

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|---|---|
| Target: | ABCB1 |
| Alternative Name: | ABCB1 (ABCB1 Products) |
| Background: | The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants.,ABC20,CD243,CLCS,GP170,MDR1,P-GP,PGY1,P Glycoprotein,ABCB1,Cancer,Drug resistance,P glycoproteins,Signal Transduction,Endocrine & Metabolism,Immunology & Inflammation,CD markers,Stem Cells,Hematopoietic Progenitors,ABCB1 |
| Molecular Weight: | 134 kDa/141 kDa |
| Gene ID: | 5243 |
| UniProt: | P08183 |

## Application Details

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|---|---|
| Application Notes: | WB,1:500 - 1:2000,IF,1:50 - 1:200 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |

## Handling

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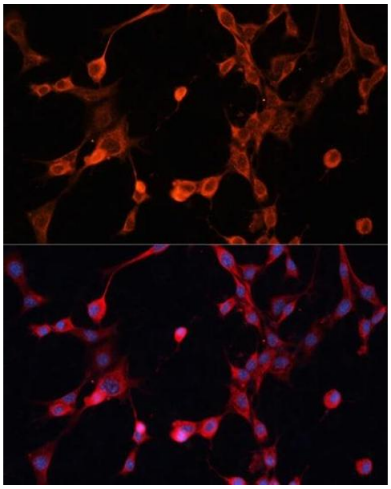
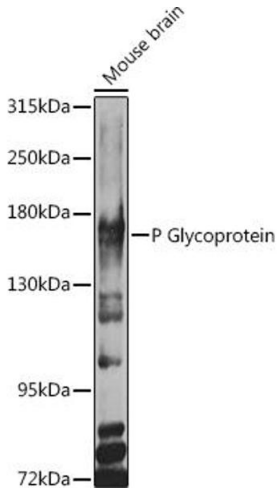
|---|---|
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |

## Images



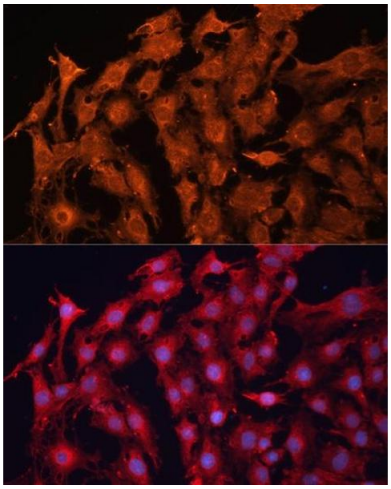
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of NIH/3T3 cells using P Glycoprotein antibody (ABIN6129943, ABIN6136341, ABIN6136344 and ABIN6216612) at dilution of 1:100. Blue: DAPI for nuclear staining.




### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using P Glycoprotein antibody (ABIN6129943, ABIN6136341, ABIN6136344 and ABIN6216612) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 30s.



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of C6 cells using P Glycoprotein antibody (ABIN6129943, ABIN6136341, ABIN6136344 and ABIN6216612) at dilution of 1:100. Blue: DAPI for nuclear staining.