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Monoclonal Antibody to CD338 / ABCG2 / BCRP1 - Ascites

Alternate names: ABCP, ATP-binding cassette sub-family G member 2, Breast cancer resistance protein 1, MXR, Mitoxantrone resistance-associated protein, Placenta-specific ATP-binding cassette transporter

Catalog No.: AM06631SU-N

Quantity: 0.1 ml

Background: The membrane-associated protein encoded by this gene is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue.Tissue specificity: Highly expressed in placenta. Low expression in small intestine, liver and colon.

Uniprot ID: Q9UNQ0

NCBI: NP_004818.2

GeneID: 9429

Host / Isotype: Mouse / IgG1

Clone: 1H2

Immunogen: Purified recombinant fragment of Human ABCG2 expressed in E. Coli.

Format: **State:** Ascitic fluid containing 0.03% Sodium Azide.

Applications: **ELISA:** 1/10000.
Western Blot: 1/500-1/2000.
Immunofluorescence: 1/200-1/1000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 72 kDa

Specificity: This antibody recognizes ABCG2.

Species Reactivity: **Tested:** Human, Mouse and Monkey.

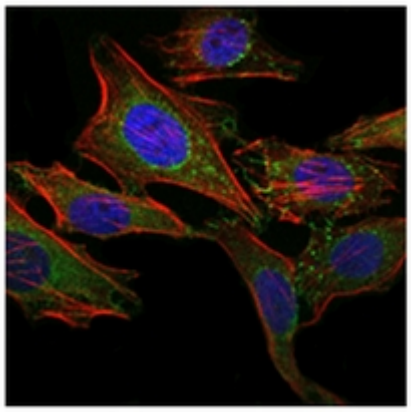
Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

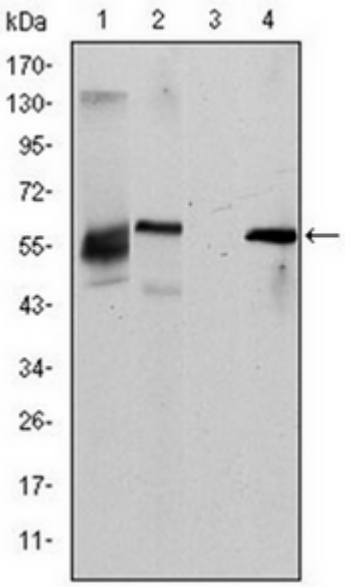
1. Carcinogenesis. 2008 Dec;29(12):2289-97.
2. Pharm Res. 2009 Feb;26(2):449-58.

Pictures:

Immunofluorescence analysis of Hela cells using ABCG2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Western blot analysis using ABCG2 mouse mAb against HepG2 (1), Cos7 (2), Jurkat (3) and NIH/3T3 (4) cell lysate.



Red: Control Antigen (100ng)Purple: Antigen (10ng)Green: Antigen (50ng)Blue: Antigen (100ng)