

ARG66193 anti-ABCG2 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ABCG2
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Specificity	The antibody detects endogenous ABCG2 protein.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ABCG2
Species	Human
Immunogen	Synthetic peptide around aa. 461-510 of Human ABCG2.
Conjugation	Un-conjugated
Alternate Names	BCRP1; Urate exporter; BCRP; MRX; Placenta-specific ATP-binding cassette transporter; EST157481; GOUT1; MXR; Mitoxantrone resistance-associated protein; CDw338; CD338; ATP-binding cassette sub-family G member 2; ABC15; ABCP; UAQTL1; Breast cancer resistance protein; MXR1; MXR-1; BMDP; CD antigen CD338

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

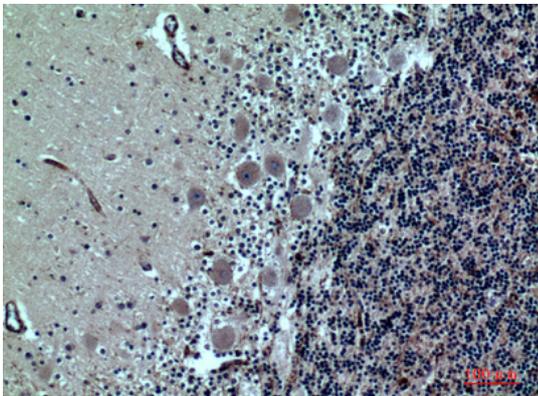
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

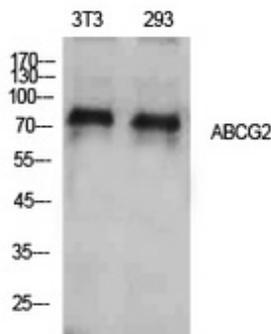
Gene Symbol	ABCG2
Gene Full Name	ATP-binding cassette, sub-family G (WHITE), member 2 (Junior blood group)
Background	The membrane-associated protein encoded by this gene is included in the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
Function	High-capacity urate exporter functioning in both renal and extrarenal urate excretion. Plays a role in porphyrin homeostasis as it is able to mediate the export of protoporphyrin IX (PPIX) both from mitochondria to cytosol and from cytosol to extracellular space, and cellular export of heme, and heme. Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. Implicated in the efflux of numerous drugs and xenobiotics: mitoxantrone, the photosensitizer pheophorbide, camptothecin, methotrexate, azidothymidine (AZT), and the anthracyclines daunorubicin and doxorubicin. [UniProt]
Calculated Mw	72 kDa
PTM	Glycosylation-deficient ABCG2 is normally expressed and functional.

Images



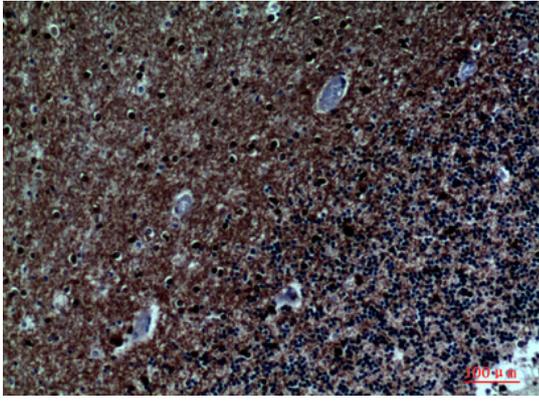
ARG66193 anti-ABCG2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain tissue stained with ARG66193 anti-ABCG2 antibody at 1:100 dilution.



ARG66193 anti-ABCG2 antibody WB image

Western blot: NIH-3T3 and 293 cell lysates stained with ARG66193 anti-ABCG2 antibody at 1:500 dilution.



ARG66193 anti-ABCG2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain tissue stained with ARG66193 anti-ABCG2 antibody 1:100 dilution.