

Anti-ABCA1 Antibody [4G2]

RT1009



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IP, IF, IHC-P
Molecular Wt:	220 kDa
Clone number:	4G2

Description: ABC1 (for ATP-binding cassette transporter 1) is a member of the family of ATP-binding cassette proteins which transport various molecules across biological membranes. ABC1 contains 2 characteristic ATP-binding domains and 12 transmembrane domains which form a channel-like structure for transport. Mutations in the ABC1 gene are implicated in Tangier disease, characterized by low serum high density lipoprotein. ABC1 is widely expressed in human tissues, with high levels of expression in liver, lung, adrenal glands, placenta and fetal tissue. ABC1 expression is induced during monocyte differentiation and upregulated in the presence of acetylated low-density lipoprotein. ABC1 may have a dual regulatory function in macrophage lipid metabolism and inflammation.

Immunogen: peptide

Positive control: MES-SA/Dx5

Subcellular location: Membrane

Database links: SwissProt: O95477 Human

Recommended Dilutions:

WB	1:100-1:1,000
IP	1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)
IF	1:50-500
IHC-P	1:50-500

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at +4°C

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

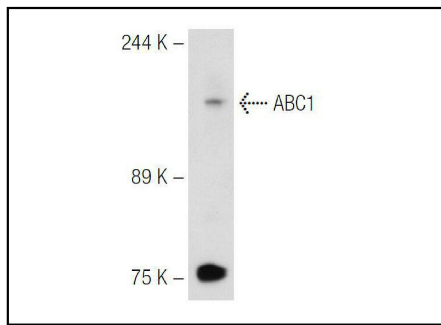


Fig1: Western blot analysis of ABC1 expression in MES-SA/Dx5 whole cell lysate.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Okoro, E.U., et al. 2012. Apolipoprotein E4 is deficient in inducing macrophage ABCA1 expression and stimulating the Sp1 signaling pathway. PLoS ONE 7: e44430.
2. Pourebrahim, R., et al. 2011. Transcription factor Zic2 inhibits Wnt/ β -catenin protein signaling. J. Biol. Chem. 286: 37732-37740.
3. Palozza, P., et al. 2011. Lycopene regulation of cholesterol synthesis and efflux in human macrophages. J. Nutr. Biochem. 22: 971-978.
4. Sanchez, V. and Dong, J.J. 2010. Alteration of lipid metabolism in cells infected with human cytomegalovirus. Virology 404: 71-77.

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