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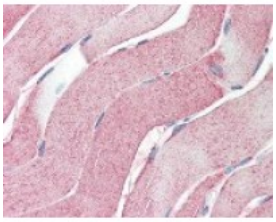
ABCA1 Antibody [A00121.01]

CATALOG NUMBER: 49-889



Immunohistochemistry staining of ABCA1 in skeletal muscle tissue using ABCA1 Monoclonal Antibody.

Specifications

SPECIES REACTIVITY:	Chicken, Human, Mouse
TESTED APPLICATIONS:	ELISA, IHC, WB
APPLICATIONS:	ABCA1 antibody can be used in immunohistochemistry starting at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	Specifically ABCA1 from human, mouse, and chicken.
IMMUNOGEN:	ABCA1 monoclonal antibody was raised against amino acids 1800 - 2260 of ABCA1 (Human).
HOST SPECIES:	Mouse

Properties

PURIFICATION:	Immunoaffinity Chromatography
PHYSICAL STATE:	Liquid
BUFFER:	PBS, pH 7.4, 0.05% sodium azide.
STORAGE CONDITIONS:	Store ABCA1 antibody at 4 ˚C or -20 ˚C. As with all antibodies avoid freeze/thaw cycles.
CLONALITY:	Monoclonal
ISOTYPE:	IgG1
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	ABCA1, ABC-1, ABC1, CERP, HDLDT1, Tangier disease, ATP-binding cassette 1, Td, Membrane-bound, TGD
ACCESSION NO.:	O95477
PROTEIN GI NO.:	308153644
OFFICIAL SYMBOL:	ABCA1
GENE ID:	19

Background

BACKGROUND:	This membrane-associated protein is a member of the superfamily of ATP-binding cassette (ABC) transporters.

ABC proteins transport various molecules across extracellular and intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in this gene have been associated with Tangiers disease and familial high-density lipoprotein deficiency. ABCA1 (ATP-binding Cassette, Sub-family A, Member 1), also known as ABC1 (ABC Transporter 1) or CERP (Cholesterol efflux regulatory protein), is a member of the family of ATP-binding cassette (ABC) transporters. It is a cAMP-dependent, sulfonylurea-sensitive traffic ATPase, which is located at the plasma membrane and plays a key role in the cellular lipid removal pathway. ABCA1 supports apolipoprotein A-I (APOA1)-mediated cellular efflux of cholesterol and choline-phospholipids into the blood circulation; therefore, ABCA1 defects result in reduced plasma level of high density lipoproteins (HDL) combined with the tissue deposition of cholesteryl esters. More commonly, ABCA1 inherited defects are associated with a milder condition, so-called familial hypoalphalipoproteinemia (FHA). FHA patients, similar to Tangier disease patients, demonstrate a very evident decrease of HDL level; however, they lack clinical manifestations.

December 13, 2016