

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ABCA1 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ABCA1 Phe1248-Gln1350 Accession # O95477
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Intracellular Staining by Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ABCA1 (ATP-binding cassette, subfamily A member 1; also cholesterol efflux regulatory protein) is a 240-280 kDa member of the ABCA family, ABC transporter superfamily of molecules. It is widely expressed, particularly by macrophages, where it participates in the transport of lipid across cell membranes. Once transported, it is passed on to tethered apoA-I to form HDL. Human ABCA1 is 2261 amino acids (aa) in length. It has up to 15 transmembrane segments with beginning and ending cytoplasmic domains and a large cytoplasmic central region. ABC transporters are found between aa 899-1311 and 1912-2144. Amino acids 2216-2221 are essential for lipid transport, and two intramolecular disulfide bonds are required for activity (Cys75-Cys309 and Cys1463/1465-Cys1477). There are three potential isoform variants. One possesses an alternative start site at Met61, while two others contain 12 aa and 123 aa substitutions for aa 241-2261, respectively. Over aa 1248-1350, human ABCA1 shares 97% aa identity with mouse ABCA1.

PRODUCT SPECIFIC NOTICES

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