

ATP Binding Cassette Transporter A1 (ABCA1) Recombinant Protein | ABCA1 recombinant protein

Recombinant ATP Binding Cassette Transporter A1 (ABCA1)

CATALOG # AAA149281	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
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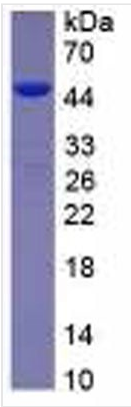
PRODUCT SYNONYMS

ATP Binding Cassette Transporter A1 (ABCA1); Recombinant ATP Binding Cassette Transporter A1 (ABCA1); CERP; ABC-A1; ABC1; HDLDT1; TGD; Cholesterol Efflux Regulatory Protein; Tangier Disease; ABCA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose .
Concentration	Original Concentration: 1500ug/mL (varies by lot)
Applicable Applications for ABCA1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Arg43~Glu450
Tags	N-terminal His Tag
Subcellular Location	Membrane
Traits	Freeze-dried powder
Predicted isoelectric point	6.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Sequence

RLSYPPYEQHECHFNKAMPAGTLPWQGIICNANNPCFRYPGAPGVGNFNKSIARLFSDARRLLLYSQDTSKDKRKVLRL
TLQDIKSSSNLKLQDFLDNETFSGLYNNLSLPKSTVOKPLRAVDILHKVFLQYQHLHLSLQNGSKSEPMQLQDQVESELCCGLP
REKLAAEVRVRSNDLKPDLRLTNSSTPFPSSHELAATKLLHSLGTLAQELFDRKSDORQEWFLTNWSSSSSTQIQYQVSR
IVCQHEGGGLKTKSLNVEENMYKALFGNGTEEDAEFTYDNTTPYCNLMKILSSPLSRILIKALKPLLVGKILYTPDTPATRO
VMAEVNKTQELAVFDLEGMEELSPKINTFMENSQENDLVRLDSDRNDHFME

SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for ABCA1 recombinant protein	Signal transduction; Metabolic pathway
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21536376
NCBI GeneID	19
NCBI Accession #	NP_005493.2
NCBI GenBank Nucleotide #	NM_005502.4
UniProt Accession #	O95477
Molecular Weight	Predicted Molecular Mass: 50.1kDa Accurate Molecular Mass: 46kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	ATP-binding cassette sub-family A member 1
NCBI Official Synonym Full Names	ATP binding cassette subfamily A member 1
NCBI Official Symbol	ABCA1
NCBI Official Synonym Symbols	TGD; ABC1; CERP; ABC-1; HDLDT1
NCBI Protein Information	ATP-binding cassette sub-family A member 1
UniProt Protein Name	ATP-binding cassette sub-family A member 1
UniProt Gene Name	ABCA1
UniProt Synonym Gene Names	ABC1; CERP; ABC-1
UniProt Entry Name	ABCA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.