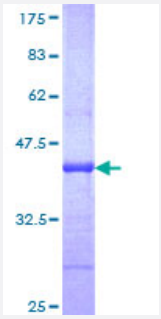
ABCA4 (Human) Recombinant Protein (Q01)

Catalog # H00000024-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ABCA4 partial ORF (NP_000341, 2174 a.a. - 2273 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PKDDLLPDLNPVEQFFQGNFPGSVQRERHYNMLQFQVSSSSLARIFQLLLSHKDSLLIEEYSVTQT TLDQVFVNFAKQQTESHDLPLHPRAAGASRQAQD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (92); Rat (92)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ABCA4

Entrez GeneID	24
GeneBank Accession#	NM_000350
Protein Accession#	NP_000341
Gene Name	ABCA4
Gene Alias	ABC10, ABCR, ARMD2, CORD3, DKFZp781N1972, FFM, FLJ17534, RMP, RP19, STGD, STGD1
Gene Description	ATP-binding cassette, sub-family A (ABC1), member 4
Omim ID	153800 248200 601691 601718 604116
Gene Ontology	Hyperlink
Gene Summary	The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. This protein is a retina-specific ABC transporter with N-retinylidene-PE as a substrate. It is expressed exclusively in retina photoreceptor cells, indicating the gene product mediates transport of an essental molecule across the photoreceptor cell membrane. Mutations in this gene are found in patients diagnosed with Stargardt disease, a form of juvenile-onset macular degeneration. Mutations in this gene are also associated with retinitis pigmentosa-19, cone-rod dystrophy type 3, early-onset severe retinal dystrophy, fundus flavimaculatus, and macular degeneration age-related 2. [provided by RefSeq
Other Designations	ATP binding cassette transporter|ATP-binding cassette, sub-family A member 4|ATP-binding transporter, retina-specific|OTTHUMP00000012366|photoreceptor rim protein|retina-specific ABC transporter

Pathway

- ABC transporters

Disease

- Atherosclerosis
- Blindness
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Kidney Failure
- Macular Degeneration
- Retinal Degeneration
- Retinal Diseases
- Retinitis Pigmentosa
- Tobacco Use Disorder
- Toxoplasmosis
- Vision