ABCA4 polyclonal antibody

Catalog # PAB11617 Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ABCA4.
Immunogen	A synthetic peptide corresponding to amino acids 1336-1349 of human ABCA4.
Sequence	EPECPGPQLNTGTQ
Host	Goat
Theoretical MW (kDa)	256
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

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Gene Info — ABCA4

Entrez GeneID	24
Protein Accession#	NP_000341.2
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

Publication Reference

- Serotype-dependent packaging of large genes in adeno-associated viral vectors results in effective gene delivery in mice.

  Allocca M, Doria M, Petrillo M, Colella P, Garcia-Hoyos M, Gibbs D, Kim SR, Maguire A, Rex TS, Di Vicino U, Cutillo L, Sparrow JR, Williams DS, Bennett J, Auricchio A.

  The Journal of Clinical Investigation 2008 May; 118(5):1955.

  Application: IHC, WB, Mouse , Mouse retina

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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

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