



Anti-ABCA4 (aa 2174-2273) polyclonal antibody (DPAB-DC1145)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 essential 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.
Immunogen	ABCA4 (NP_000341, 2174 a.a. ~ 2273 a.a) partial recombinant protein with GST tag. The sequence is PKDDLPLDNPVEQFFQGNFPGSVQRRHYNMLQFQVSSSSLARIFQLLLSHKDSLLIEE YSVTQTTLQVFNFAKQQTESHDLPLHPRAAGASRQAQD
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ABCA4 ATP-binding cassette, sub-family A (ABC1), member 4 [Homo sapiens (human)]
Official Symbol	ABCA4
Synonyms	ABCA4; ATP-binding cassette, sub-family A (ABC1), member 4; FFM; RMP; ABCR; RP19; STGD; ABC10; ARMD2; CORD3; STGD1; retinal-specific ATP-binding cassette transporter; RIM protein; RIM ABC transporter; photoreceptor rim protein; stargardt disease protein; retina-specific ABC transporter; ATP binding cassette transporter; ATP-binding transporter, retina-specific; ATP-binding cassette sub-family A member 4; ATP-binding cassette transporter, retinal-specific;
Entrez Gene ID	24
Protein Refseq	NP_000341
UniProt ID	P78363
Chromosome Location	1p22
Pathway	ABC transporters; ABC-family proteins mediated transport; Diseases associated with visual transduction; The canonical retinoid cycle in rods (twilight vision)
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; phospholipid-translocating ATPase activity; transporter activity