

ABCA1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 85434-3-PBS

Basic Information

Catalog Number: 85434-3-PBS	GenBank Accession Number: BC146856	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 19	CloneNo.: 261086C3
Source: Rabbit	UNIPROT ID: O95477	
Isotype: IgG	Full Name: ATP-binding cassette, sub-family A (ABC1), member 1	
Immunogen Catalog Number: AG37398	Observed MW: 250 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

85434-3-PBS targets ABCA1 as part of a matched antibody pair:

MP01937-2: 85434-4-PBS capture and 85434-3-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

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 (ABCA, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABCA subfamily. Members of the ABCA subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. With cholesterol as its substrate, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway.

Storage

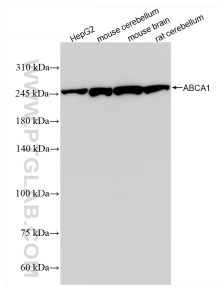
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

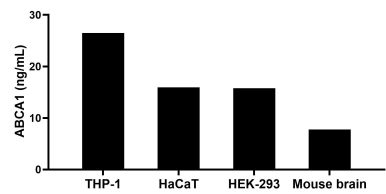
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

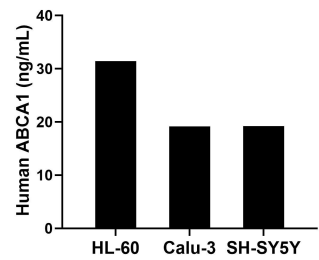
Selected Validation Data



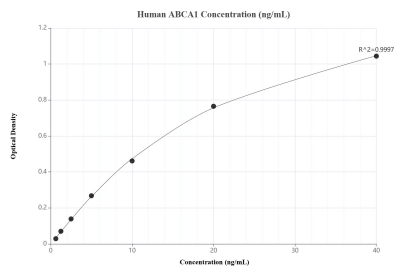
Various lysates were subjected to SDS PAGE followed by western blot with 85434-3-RR (ABCA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85434-3-PBS in a different storage buffer formulation.



The mean ABCA1 concentration was determined to be 26.47 ng/mL in THP-1 cell extract based on a 1.20 mg/mL extract load, 15.96 ng/mL in HaCaT cell extract based on a 1.20 mg/mL extract load, 15.79 ng/mL in HEK-293 cell extract based on a 1.20 mg/mL extract load and 7.79 ng/mL in mouse brain extract based on a 1.20 mg/mL extract load.



The mean ABCA1 concentration was determined to be 31.41 ng/mL in HL-60 cell extract based on a 1.20 mg/mL extract load, 19.14 ng/mL in Calu-3 cell extract based on a 1.20 mg/mL extract load and 19.22 ng/mL in SH-SY5Y cell extract based on a 1.20 mg/mL extract load.



Sandwich ELISA standard curve of MP01937-2, Human ABCA1 Recombinant Matched Antibody Pair - PBS only. 85434-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag37398. 85434-3-PBS was HRP conjugated as the detection antibody. Range: 0.625-40 ng/mL.