bs-23418R **[Primary Antibody]**

ABCA1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 19 **SWISS:** O95477

Target: ABCA1

Immunogen: KLH conjugated synthetic peptide derived from human ABCA1: 1551-1650/2261. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. With cholesterol as its substrate, this protein functions as a cholesteral efflux pump in the cellular lipid removal pathway. Mutations in both alleles of this gene cause Tangier disease and familial high-density lipoprotein (HDL) deficiency. [provided by RefSeq, Sep 2019]

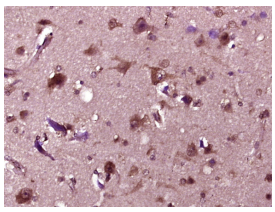
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Horse)

Predicted MW.: 254 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ABCA1) Polyclonal Antibody, Unconjugated (bs-23418R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

SELECTED CITATIONS

- **[IF=16]** Cui Tang. et al. Multifunctional Nanomedicine for Targeted Atherosclerosis Therapy: Activating Plaque Clearance Cascade and Suppressing Inflammation. ACS NANO. 2025;XXXX(XXX):XXX-XXX WB,IHC ;Mouse. 39812806
- **[IF=9.776]** Hongyan Zhou. et al. Artemisinin and Procyanidins loaded multifunctional nanocomplexes alleviate atherosclerosis via simultaneously modulating lipid influx and cholesterol efflux. J Control Release. 2022 Jan;341:828 IHC

;Mouse. 34942304

- **[IF=10.041]** Peidong You. et al. Targeting and promoting atherosclerosis regression using hybrid membrane coated nanomaterials via alleviated inflammation and enhanced autophagy. Appl Mater Today. 2022 Mar;26:101386 WB ;Mouse. 10.1016/j.apmt.2022.101386
- **[IF=10.2]** Hanshuang Ding. et al. Biomimetic Membrane-Coated Nanoparticles for Targeted Synergistic Therapy of Homocysteine-Induced Atherosclerosis: Dual Modulation of Cholesterol Efflux and Reactive Oxygen Species Scavenging. MATER TODAY BIO. 2025 May;:101938 IHC ;Mouse. 10.1016/j.mtbio.2025.101938
- **[IF=9.8]** Yanghuan Yu. et al. MiRNA-seq and mRNA-seq revealed the mechanism of fluoride-induced cauda epididymal injury. SCI TOTAL ENVIRON. 2024 Jun;930:172895 WB,IF ;Mouse. 38697545