bs-1727R **[Primary Antibody]**

ABCG4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 64137 **SWISS:** Q9H172

Target: ABCG4

Immunogen: KLH conjugated synthetic peptide derived from human ABCG4: 551-646/646. < Cytoplasmic >

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: he ATP binding cassette (ABC) superfamily of membrane transporters is one of the largest protein classes known, and counts for numerous proteins involved in trafficking of biological molecules across membranes. ABCG4 protein is highly expressed in both human and mouse brain, it is a 646aa molecule in human (chr 11q23) and mouse. It is an integral membrane protein may be involved in macrophage lipid homeostasis. The ABCG4 protein' s abundant expression in brain and close evolutionary relationship to the other members of the subfamily suggests a potential role in cholesterol transport.

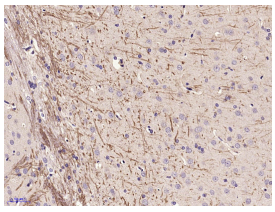
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Rat (predicted: Human, Mouse, Rabbit, Pig, Dog, Horse)

Predicted MW.: 71 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (ABCG4) Polyclonal Antibody, Unconjugated (bs-1727R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.

SELECTED CITATIONS

- **[IF=3.05]** Matsumoto, Koichi, et al. "Immunohistochemical analysis of transporters related to clearance of amyloid-β peptides through blood–cerebrospinal fluid barrier in human brain." Histochemistry and Cell Biology (2015): 1-15. IHC ;="Human". 26449856
- **[IF=1.22]** Ueno, Masaki, et al. "Blood–brain barrier and blood–cerebrospinal fluid barrier in normal and pathological conditions." Brain Tumor Pathology (2016): 1-8. IHC ;="Human". 26920424