

Rabbit Anti-ABCB9 antibody

SL11907R

Product Name ABCB9

Chinese Name 腺苷三磷酸结合盒转运体 9 抗体

Alias ABC transporter 9 protein; ABCB 9; ATP binding cassette sub family B (MDR/TAP) member 9; ATP binding cassette sub family B member 9 precursor; ATP binding cassette transporter 9; EST122234; ABCB9; KIAA1520; TAP like protein; TAPL; ABCB9_HUMAN.

Research Area Tumour Cell biology Signal transduction Transporter The new supersedes the old

Immunogen Species Rabbit

Clonality Polyclonal

React Species Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Cow,Horse,Sheep)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 84kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human ABCB9: 321-420/766

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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ATP-binding cassette (ABC) transporters are an evolutionarily conserved family of widely-expressed proteins that use ATP hydrolysis to catalyze the transport of various molecules across extracellular and intracellular membranes. As the largest family of transmembrane proteins, ABC genes comprise several subfamilies (ABC1, ABCA, ABCE, ABCF, MDR/TAP, MRP, ALD, OABP, GCN20 and White (also known as ABCG)). In bacteria, ABC transporters are used to import compounds that cannot be obtained by diffusion. Eukaryotic ABC transporters are largely responsible for trafficking hydrophobic compounds either within the cell as part of a metabolic process or outside the cell for transport to other organs, or for secretion from the body. ABCB9 (also designated Transporter associated with antigen processing (TAP)-like or TAPL) forms a homodimer, which is localized in lysosomes. It functions as an ATP-dependent peptide transporter that shows a broad peptide specificity ranging from 6-mer up to 59-mer peptides. ABCB9 transports these peptides with low affinity but high efficiency.

Function:

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 intra cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. The function of this half transporter has not yet been determined; however, this protein may play a role in lysosomes. Alternative splicing of this gene results in three known products which are likely to have different substrate specifications.

Product Detail

Subunit:

Homodimer.

Subcellular Location:

Integral membrane protein. Lysosomal. May be localized in the endoplasmic reticulum.

Tissue Specificity:

Highly expressed in testis, and at moderate levels in brain, spinal cord, and thyroid. Not expressed in monocytes but strongly expressed during differentiation of monocytes to dendritic cells and macrophages.

Similarity:

Belongs to the ABC transporter superfamily. ABCB family. MHC peptide exporter (TC 3.A.1.209) subfamily.

Contains 1 ABC transmembrane type-1 domain.

Contains 1 ABC transporter domain.

SWISS:

Q9NP78

Gene ID:
23457

Database links:

[Entrez Gene: 23457](#) Human

[Entrez Gene: 56325](#) Mouse

[Entrez Gene: 63886](#) Rat

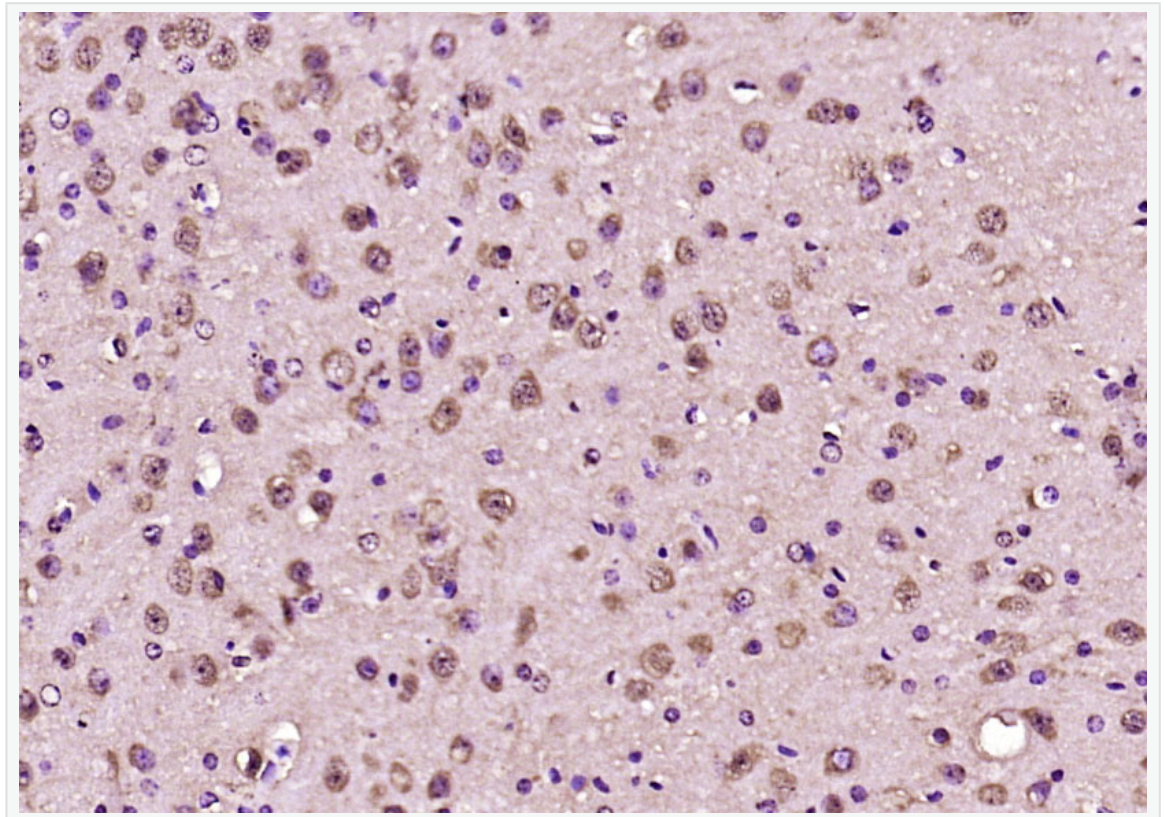
[Omim: 605453](#) Human

[SwissProt: Q9NP78](#) Human

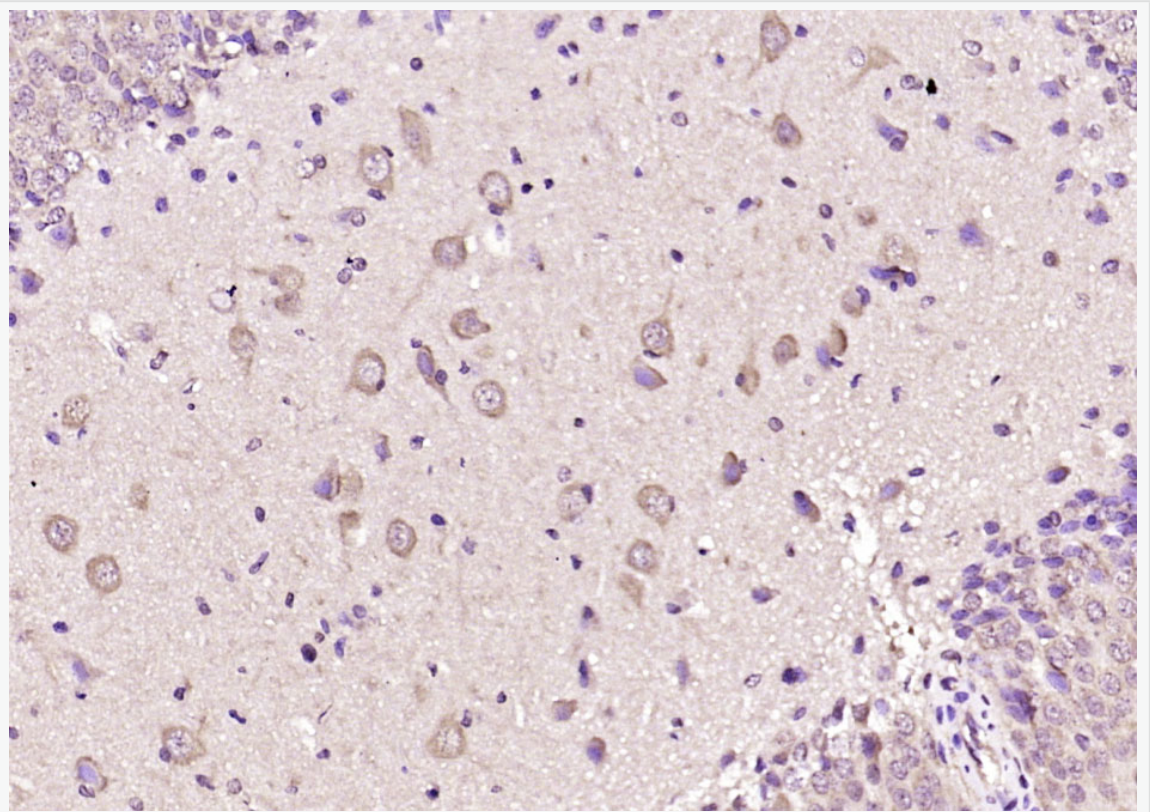
[SwissProt: Q9JJ59](#) Mouse

[SwissProt: Q9QYJ4](#) Rat

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (mouse brain); 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 (ABCB9) Polyclonal Antibody, Unconjugated (SL11907R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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 (ABCB9) Polyclonal Antibody, Unconjugated (SL11907R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.