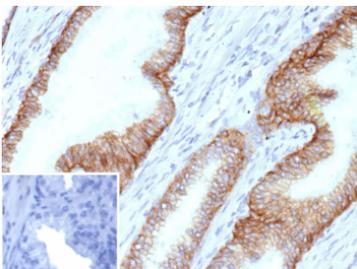


ABCC4 Antibody / ATP-binding cassette sub-family C member 4 / MRP4 [clone ABCC4/9178] (V5849)

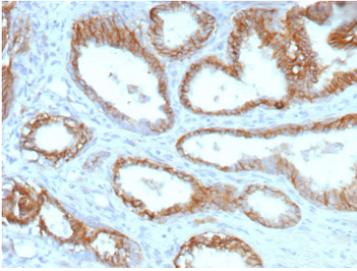
Catalog No.	Formulation	Size
V5849-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5849-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5849SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

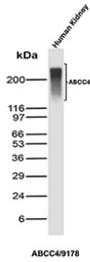
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	ABCC4/9178
UniProt	O15439
Localization	Membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This ABCC4/ATP-binding cassette sub-family C member 4 antibody is available for research use only.



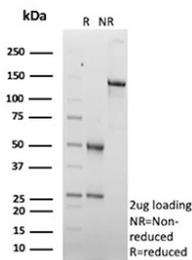
Immunohistochemical analysis of ABCC4 in FFPE human prostate tissue using an ABCC4 antibody (clone ABCC4/9178). Brown membranous and cytoplasmic staining is observed in epithelial cells, consistent with ATP-binding cassette sub-family C member 4 localization. Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 minutes at 95 C followed by cooling at room temperature for 20 minutes. Inset shows a negative control section processed in parallel using PBS in place of the primary antibody, demonstrating minimal background staining.



Immunohistochemical analysis of ABCC4 in FFPE human prostate tissue using an ABCC4 antibody (clone ABCC4/9178). Distinct membranous staining is observed in glandular epithelial cells lining prostatic ducts, consistent with ATP-binding cassette sub-family C member 4 localization. Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 minutes at 95 C followed by cooling at room temperature for 20 minutes. Inset shows a negative control section processed in parallel using PBS in place of the primary antibody, demonstrating minimal background staining.



Western blot analysis of ABCC4 in human kidney lysate using an ABCC4 antibody (clone ABCC4/9178). A broad immunoreactive band is detected in the ~200 kDa region, consistent with the predicted molecular weight of ATP-binding cassette sub-family C member 4. The diffuse migration pattern may reflect heterogenous electrophoretic mobility often observed for large, multi-pass membrane transporters.



SDS-PAGE analysis of purified, BSA-free ABCC4/ATP-binding cassette sub-family C member 4 antibody (clone ABCC4/9178) as confirmation of integrity and purity.

Description

ABCC4 antibody targets ATP-binding cassette sub-family C member 4, also widely known as multidrug resistance-associated protein 4 (MRP4) and encoded by the ABCC4 gene. ABCC4 is a member of the ATP-binding cassette transporter family and functions as an ATP-dependent efflux pump for a broad range of endogenous and xenobiotic substrates. The protein is primarily localized to the plasma membrane, where it contributes to cellular export processes that regulate intracellular metabolite and drug levels.

ATP-binding cassette sub-family C member 4 plays an important role in the transport of organic anions, including cyclic nucleotides, prostaglandins, bile acids, and various drug conjugates. ABCC4 antibody, also referred to as MRP4 antibody in the literature, is commonly used to investigate transporter-mediated signaling pathways and mechanisms of cellular detoxification. Unlike some ABC transporters with narrow substrate specificity, ABCC4 exhibits broad substrate recognition, supporting its involvement in diverse physiological processes.

Expression of ABCC4 has been documented in multiple tissues, including liver, kidney, brain, and immune-related cells, reflecting its role in systemic transport and barrier functions. ABCC4 antibody is frequently applied in studies examining pharmacokinetics, drug resistance, and inflammatory signaling, where MRP4-mediated transport influences intracellular signaling molecule availability and therapeutic response.

In disease-related research, altered expression of ATP-binding cassette sub-family C member 4 has been associated with cancer progression, antiviral drug resistance, and inflammatory disorders. ABCC4 antibody is therefore useful for examining transporter expression patterns in both normal and disease-associated tissues, including tumors and drug-treated models.

This ABCC4 antibody, clone ABCC4/9178, is designed to recognize ABCC4 protein in research applications. Clone ABCC4/9178 supports detection of membrane-associated ABCC4 expression and is suitable for studies focused on ABC

transporter biology, multidrug resistance mechanisms, and cellular transport pathways.

Application Notes

Optimal dilution of the ABCC4/ATP-binding cassette sub-family C member 4 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (around amino acids 1-200) of human ABCC4 protein (exact sequence is proprietary) was used as the immunogen for the ABCC4/ATP-binding cassette sub-family C member 4 antibody.

Storage

ABCC4/ATP-binding cassette sub-family C member 4 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.