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Goat Anti-MRP8 / ABCC11 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1684a

Specification

Goat Anti-MRP8 / ABCC11 Antibody - Product Information

Application	**WB, IHC, IF, FC, Pep-ELISA**
Primary Accession	Q96J66
Other Accession	NP_660187, 85320
Reactivity	**Human**
Predicted	**Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**154301**

Goat Anti-MRP8 / ABCC11 Antibody - Additional Information

Gene ID 85320

Other Names
ATP-binding cassette sub-family C member 11, Multidrug resistance-associated protein 8, ABCC11, MRP8

Dilution
WB~~1:1000
IHC~~1:100~500
IF~~1:50~200
FC~~1:10~50
Pep-ELISA~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-MRP8 / ABCC11 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MRP8 / ABCC11 Antibody - Protein Information

Name ABCC11 (HGNC:14639)

Function
ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds and xenobiotics from cells. Plays a role in physiological processes involving bile acids, conjugated steroids and cyclic nucleotides, including cAMP and cGMP (PubMed:12764137, PubMed:15537867). Mediates the ATP-dependent efflux of a range of physiological lipophilic anions, including the glutathione S-conjugates leukotriene C4 and dinitrophenyl S- glutathione, steroid sulfates, such as dehydroepiandrosterone 3-sulfate (DHEAS) and estrone 3-sulfate, glucuronides such as estradiol 17-beta- D-glucuronide (E(2)17betaG), the monoanionic bile acids glycocholate and taurocholate, and methotrexate (PubMed:15537867, PubMed:16359813, PubMed:25896536). Plays a role in the transport of earwax components (PubMed:16444273, PubMed:19383836). Participates in the secretion of odorants and their precursors from the apocrine sweat glands, including the secretion of glutamine conjugates, as well as the Cys-Gly-(S) conjugates of 3-methyl-3-sulfanyl-hexanol (PubMed:19710689). Involved in the cellular extrusion of nucleotide analogs, hence confering resistance to various drugs, including clinically relevant drugs such as 5-fluorouracil (5-FU) and methotrexate (PubMed:12764137, PubMed:15537867, PubMed:25896536).

Cellular Location
Cell membrane; Multi-pass membrane protein. Vacuole membrane Cytoplasmic vesicle membrane. Apical cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in apocrine glands (at protein level) (PubMed:19383836, PubMed:19710689). Expressed at moderate levels in breast and testis and at very low levels in liver, brain and placenta (PubMed:11483364, PubMed:11591886, PubMed:16359813). Localizes to axons of the central and peripheral nervous system (at protein level) (PubMed:16359813).

Goat Anti-MRP8 / ABCC11 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-MRP8 / ABCC11 Antibody - Images

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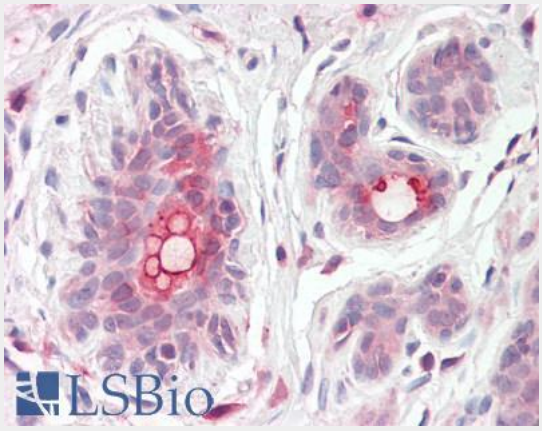
AF1684a (0.5 µg/ml) staining of Human Breast lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB08705 (0.5µg/ml) staining of Human Testes lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB08705 (3.75µg/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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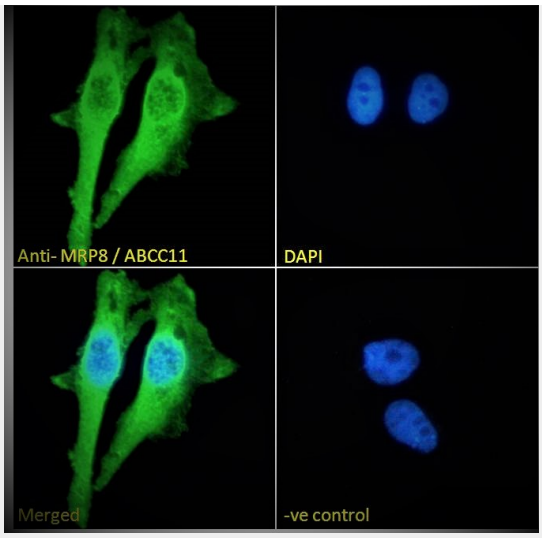
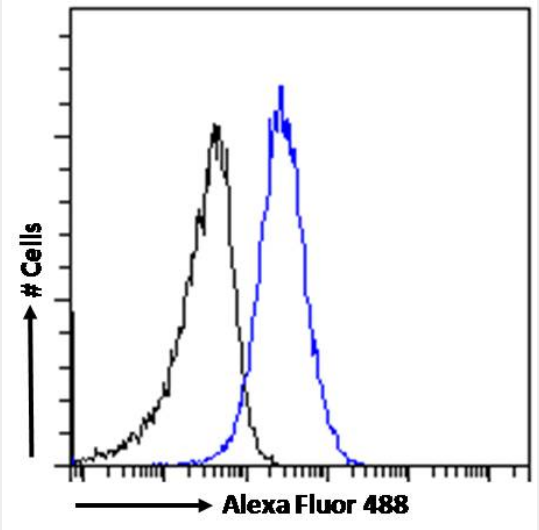


EB08705 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear sta



EB08705 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

Goat Anti-MRP8 / ABCC11 Antibody - Background

The 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 ABC full transporter is a member of the MRP subfamily which is involved in multi-drug resistance. The product of this gene participates in physiological processes involving bile acids, conjugated steroids, and cyclic nucleotides. In addition, a SNP in this gene is responsible for determination of human earwax type. This gene and family member ABCC12 are determined to be derived by duplication and are both localized to chromosome 16q12.1. Multiple alternatively spliced transcript variants have been described for this gene.

Goat Anti-MRP8 / ABCC11 Antibody - References

A functional ABCC11 allele is essential in the biochemical formation of human axillary odor. Martin

A, et al. J Invest Dermatol, 2010 Feb. PMID 19710689.
A strong association of axillary osmidrosis with the wet earwax type determined by genotyping of the ABCC11 gene. Nakano M, et al. BMC Genet, 2009 Aug 4. PMID 19650936.
Japanese map of the earwax gene frequency: a nationwide collaborative study by Super Science High School Consortium. Super Science High School Consortium. J Hum Genet, 2009 Sep. PMID 19644513.
Correlation of axillary osmidrosis to a SNP in the ABCC11 gene determined by the Smart Amplification Process (SmartAmp) method. Inoue Y, et al. J Plast Reconstr Aesthet Surg, 2010 Aug. PMID 19625231.
Allele frequencies of the ABCC11 gene for earwax phenotypes among ancient populations of Hokkaido, Japan. Sato T, et al. J Hum Genet, 2009 Jul. PMID 19557017.