

Product Information

MemDX™ Membrane Protein Human ABCC8 (ATP binding cassette subfamily C member 8) for Antibody Discovery

Cat. No.: **MP0707J**

This product is for research use only and is not intended for diagnostic use.

This product is a 176.8 kDa Human ABCC8 membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ABCC8

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

176.8 kDa

TMD

17

Sequence

MPLAFCGSENHSAAYRVDQGVLNNGCFVDALNVVPHVFLLFITFPILFIGWGSQSSKVHIIHSTWLHFPG
HNLRWILTFMLLFVLVCEIAEGILSDGVTESHHHLHYMPAGMAFMAAVTSVYYYHNIETSNFPKLLIAL
VYWTLAFITKTIKFVKFLDHAIGFSQLRFCLTGLLVILYGMILLVEVNVIRVRRYIFFKTPREVKPPEDL
QDLGVRFLQPFVNLLSKGTYYWMNAFIKTAHKPIDLRAIGKLPIAMRALTN YQRLCEAFDAQVRKDIQG
TQGARAIIWQALSHAFGRRLVLSSTFRILADLLGFAGPLCIFGIVDHLGKENDVFQPKTQFLGVYFVSSQE
FLANAYVLAVLLFLALLLQRTFLQASYYVAIETGINLRGAIQTKIYNKIMHLSTSNLSMGEMTAGQICNL
VAIDTNQLMWFFFLLCPNLWAMPVQIIVGVILYYILGVSALIGAAVILLAPVQYFVATKLSQAQRSTLE
YSNERLKQTNEMLRGIKLLKLYAWENIFRTRVETTRRKEMTS LRAFAIYTSISIFMNTAIPAAVLITFV
GHVSFFKEADFSPSVAFAASLSLFHILVTPFLSSSVVRSTVKALVSQKLSEFLSSAEIREEQCAPHEPT
PQGPASKYQAVPLRVVNRKRPAREDCRGLTGPLQSLVPSADGDADNCCVQIMGGYFTWTPDGIPTLSNIT
IRIPRGQLTMIVGQVCGKSSLLLAALGEMQKVS GAVFWSSLPDSEIGEDPSPERETATDLDIRKRG PVA
YASQKPWLLNATVEENIIFESPFNKQRYKMVIEACSLQPDIDILPHGDQTQIGERGINLSGGQRQRISVA
RALYQHANVVFLDDPFSAIDHLSDHLMQAGILELLRDDKRTVVLVTHKLQYLPHADWIIAMKDG TIQRE
GTLKDFQRSECQLFEHWKTLMNQRDQELEKETVTERKATEPPQGLSRAMSSRDG LLQDEEEEEEEAAESE
EDDNLSSMLHQRAEIPWRACAKYLSSAGILL SLLVFSQLLKHMVLVAIDYWLAKWTD SALTTPAARNC
SLSQECTLDQTVYAMVFTVLC SLGIVLCLVTSVTVEWTGLKVAKRLHRSLLNRILAPMRFFET TPLGSI
LNRFSDDCNTIDQHIPSTLECLSRSTLLCVSALAVISYVTPVFLVALLPLAIVCYFIQKYFRVASRDLQQ
LDDTTQLPLLSHFAETVEGLTTIRAFRYEARFQQK LLEYTDSNNIASLFLTAANRWLEVRMEYIGACVVL
IAAVTSISNSLHRELSAGLVGLGLTYALMVS NLYLNMVRNLADMEQLGAVKRIHGLLKTEAESYEGLLA

PSLIPKNWPDQGKIQLNLSVRYDSSLKPVLKHAVNALIAPGQKIGICGRTGSGKSSFSLAFFRMVDTFEG
HIIIDGIDIAKLPLHTLSRLSILQDPVLFSGTIRFNLDPERKCSDSLWEALEIAQLKLVKALPGGL
DAITEGGENFSQGQRQLFCLARAFVRKTSIFIMDEATASIDMATENILQKVVMATAFADRTVVTIAHRVH
TILSADLVIVLKRGAILEFDKPEKLLSRKDSVFASFVRADK

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

ABCC8

Full Name

ATP binding cassette subfamily C member 8

Introduction

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 protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a modulator of ATP-sensitive potassium channels and insulin release. Mutations in the ABCC8 gene and deficiencies in the encoded protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion. Alternatively spliced transcript variants have been found for this gene.

Alternative Names

HI; SUR; HHF1; MRP8; PHHI; SUR1; ABC36; HRINS; PNDM3; TNDM2; SUR1delta2

Gene ID

[6833](#)

UniProt ID

