

Product Information

MemDX™ Membrane Protein Human PKD2 (Polycystin 2, transient receptor potential cation channel) Full Length

Cat. No.: **MPC0695K**

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

This product is a 109.6 kDa Human PKD2 membrane protein expressed in HEK293. 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

PKD2

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

109.6 kDa

TMD

6

Sequence

MVNSSRVQPQQPGDAKRPPAPRAPDPGRLMAGCAAVGASLAAPGGLCEQR
GLEIEMQIRIRQAAARDPPAGAAASPSPLSSCSRQAWSRDNPGEAE
EEVEGEEGGMVEMDVEWRPGSRRSAASSAVSSVGARSRLGGYHGAGHP
SGRRRRREDQGPPCSPVGGGDPLHRHLPLEGQPPRVAWAERLVRGLRGL
WGTRLMEESSTNREKYLKSVLRELVTYLLFLIVLCILTYGMMSSNVYYT
RMMSQLFLDTPVSKTEKTNFKTLSSMEDFWKFTEGSLDGLYWKMQPSNQ
TEADNRSFIFYENLLLGVPRIRQLRVRNGSCSIPQDLRDEIKECYDVYSV
SSEDRAFGPRNGTAWIYTSEKDLNGSSHWGIIATYSGAGYYLDLSRTRE
ETAAQVASLKKNVWLDRGTRATFIDFSVYNANINLFCVVRLLVEFPATGG
VIPSWQFQPLKLIRYVTTDFDFFLAACEIIFCFFIFYVVEEILEIRIHL
HYFRSFWNCLDVVIVVLSVVAIGINIYRTSNVEVLLQFLEDQNTFPNFEH
LAYWQIQFNIAAVTVFFVWIKLKFNFNRTMSQLSTTMSRCAKDLFGF
AIMFFIIFLAYAQLAYLVFGTQVDDFSTFQECIFTQFRILGDINFAEIE
EANRVLGPYFTTFVFFMFFILLNMFLAIINDTYSEVKSDLAQQAEMEL
SDLIRKGYHKALVKLKLKNTVDDISESLRQGGGKLNFDLRLQDLKGKGH
TDAEIEAIFTKYDQDQDELTEHEHQMRDDLEKEREDLDLHSSLPRPM
SSRSFPRSLDDSEEDDDDESGHSSRRRGSISSGVSYEEFQVLVRRVDRME
HSIGSIVSKIDAVIVKLEIMERAKLKRREVLGRLLDGVAEERLGRDSEI
HREQMERLVREELERWESDDAASQISHGLGTPVGLNGQPRPRSSRPSSSQ

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

PKD2

Full Name

Polycystin 2, transient receptor potential cation channel

Introduction

This gene encodes a member of the polycystin protein family. The encoded protein is a multi-pass membrane protein that functions as a calcium permeable cation channel, and is involved in calcium transport and calcium signaling in renal epithelial cells. This protein interacts with polycystin 1, and they may be partners in a common signaling cascade involved in tubular morphogenesis. Mutations in this gene are associated with autosomal dominant polycystic kidney disease type 2.

Alternative Names

PC2; PKD4; Pc-2; APKD2; TRPP2; polycystin-2; autosomal dominant polycystic kidney disease type II protein; polycystic kidney disease 2 (autosomal dominant); transient receptor potential cation channel subfamily P member 2; PKD2; Polycystin 2, transient receptor potential cation channel

Gene ID

[5311](#)

UniProt ID

[Q13563](#)