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Product Information

MemDX™ Membrane Protein Human CLCN3 (Chloride voltage-gated channel 3) Full Length

Cat. No.: **MPC0482K**
This product is for research use only and is not intended for diagnostic use.

This product is a 90.9 kDa Human CLCN3 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
CLCN3

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
90.9 kDa

TMD
15

Sequence
MESEQLFHRGYYRNSYNSITSASSDEELLDGAGVIMDFQTSEDDNLLDGD
TAVGTHYTMTNGGSINSSTHLLDLLDEPIPGVGTYDDFHTIDWVREKCKD
RERHRRINSKKKESAWEMTKSLYDAWSGWLVVTLTGLASGALAGLIDIAA
DWMTDLKEGICLSALWYNHEQCCWGSNETTFEERDKCPQWKTWAELIIGQ
AEGPGSYIMNYIMYIFWALSFAFLAVSLVKVFAPYACGSGIPEIKTILSG
FIIRGYLGKWTLMIKTITLVLAVASGLSLGKEGPLVHVACCCGNIFSYLF
PKYSTNEAKKREVLSAASAAGVSVAFGAPIGGVLFSLEEVSYYFPLKTLW
RSFFAALVAAFVLRSINPFGNSRLVLFYVEYHTPWYLFELFPFILLGVFG
GLWGAFFIRANIAWCRRRKSTKFGKYPVLEVIIVAAITAVIAFPNPYTRL
NTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDRPAGIGVYSAI
WQLCLALIFKIIMTVFTFGIKVPSGLFIPSMAIGAIAGRIVGIAVEQLAY
YHHDWFIFKEWCEVGADCITPGLYAMVGAAACLGGVTRMTVSLVVIVFEL
TGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTH
TTLAADVMRPRRNDPPLAVLTQDNMTVDDIENMINETSYNGFPVIMSKES
QRLVGFALRRDLTIAIESARKKQEGIVGSSRVCFAQHTPSLPAESPRPLK
LRSILDMSPFTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITKKDI
LRHMAQTANQDPASIMFN

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

CLCN3

Full Name

Chloride voltage-gated channel 3

Introduction

This gene encodes a member of the voltage-gated chloride channel (ClC) family. The encoded protein is present in all cell types and localized in plasma membranes and in intracellular vesicles. It is a multi-pass membrane protein which contains a ClC domain and two additional C-terminal CBS (cystathionine beta-synthase) domains. The ClC domain catalyzes the selective flow of Cl- ions across cell membranes, and the CBS domain may have a regulatory function. This protein plays a role in both acidification and transmitter loading of GABAergic synaptic vesicles, and in smooth muscle cell activation and neointima formation. This protein is required for lysophosphatidic acid (LPA)-activated Cl- current activity and fibroblast-to-myofibroblast differentiation. The protein activity is regulated by Ca(2+)/calmodulin-dependent protein kinase II (CaMKII) in glioma cells. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.

Alternative Names

CLC3; ClC-3; H(+)/Cl(-) exchange transporter 3; chloride channel 3; chloride channel protein 3; chloride channel, voltage-sensitive 3; chloride transporter ClC-3; CLCN3; Chloride voltage-gated channel 3

Gene ID

1182

UniProt ID

P51790