

Product Information

MemDX™ Membrane Protein Human DISP1 (Dispatched RND transporter family member 1)

Full Length

Cat. No.: **MPC1100K**

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

This product is a 170.9 kDa Human DISP1 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

DISP1

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

170.9 kDa

TMD

12

Sequence

MAMSNNGNDFVVLSSNSSIATSAANPSPLTPCDGDHAAQQLTPKEATRTRTKV
SPNGCLQLNGTVKSSFLPLDNQRMPQMLPQCCHPCPYHHPLTSHSSHQEC
HPEAGPAAPSALASCCMQPHSEYSASLCPNHSPVYQTTCCCLQSPSPFCLH
HPWPDHFQHQPVQQHIANIRPSRPFKLPKSYAALIADWPVVVLGMCTMFI
VVCALVGVLVPELPDFSDPLLGFEPGRGTAIGQRLVTWNNMVKNTGYKATL
ANYPFKYADEQAKSHRDDRWSDDHYEREKREVDWNFHKDSFFCDVPSDRY
SRVFTSSGGETLWNLPAIKSMCNVDNSRIRSHPPQFGDLCQRTTAASCCP
SWTLGNYIAILNNRSSCQKIVERDVSHTLKLLRTCAKHYQNGTLGPDCWD
MAARRKDKLKTNPVRKCTKYNNAVYQILHYLVKDFMTPKTADYATPALK
YSMLFSPTEKGESMMNIYLDNFENWNSSDGVTTITGIEFGIKHSLFQDYL
LMDTVYPAIAIVIVLLVMCVYTKSMFITLMTMFAISSLIVSYFLYRVVF
HFEFFPFMNLTAIILVGIGADDAFVLCDVWNYTKFDKPHAETSETVSIT
LQHAALSMFVTSFTTAAAFYANYVSNITAIRCFGVYAGTAILVNYVLMVT
WLPVVVLHERYLLNIFTCFKKPQQIYDNKSCWTVACQKCHKVLFALSE
ASRIFFEKVLPCIVIKFRYLWFLWFLALTVGGAYIVCINPKMKLPSLELS
EFQVFRSSHPFERYDAEYKKLFMFERVHHGEELHMPITVIWGVSPEDNGN
PLNPKSKGKLTLDSSFNIA SPASQAWILHFCQKLRNQTFYQTDEQDFTS
CFIETFKQWMENQDCDEPALYPCCSHWSFPYKQEIFELCIKRAIMELERS
TGYHLDSKTPGPRFDINDTIRAVVLEFQSTYLFTLAYEKM HQFYKEVDSW

ISSELSSAPEGLSNGWVFSNLEFYDLQDSLSDGTLIAMGLSVAVAFSVML
LTTWNIIISLYAIISIAGTIFVTGSLVLLGWELNVLESVTISVAVGLSV
DFAVHYGVAYRLAPDPDREGKVFISLSRVGSAMAMAALTTFVAGAMMMPS
TVLAYTQLGTFMMLIMCISWAFATFFFQCMCRCLGPQGTGCGQIPLPKKLQ
CSAFSHALSTSPSDKGQSKTHTINAYHLDPRGPKSELEHEFYELEPLASH
SCTAPEKTTYEETHICSEFFNSQAKNLGMPVHAAYNSELSKSTESDAGSA
LLQPPLEQHTVCHFFSLNQRCSCTDAYKHLNYGPHSCQQMGDCLCHQCSP
TTSSFVQIQNGVAPLKATHQAVEGFVHPITHIHHCPCLQGRVKPAGMQNS
LPRNFFLHPVQHIQAQEKIGKTNVHSLQRSIEEHLPKMAEPSSFVCRSTG
SLLKTCCDPENKQRELCKNRDVSNLESSGGTENKAGGKVELSLSQTDASV
NSEHFNQNEPKVLFNHLMGEGCRSCPNNSQSCGRIVRVKCNSVDCQMPN
MEANVPAVLTHSELSGESLLIKTL

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

DISP1

Full Name

Dispatched RND transporter family member 1

Introduction

The pattern of cellular proliferation and differentiation that leads to normal development of embryonic structures often depends upon the localized production of secreted protein signals. Cells surrounding the source of a particular signal respond in a graded manner according to the effective concentration of the signal, and this response produces the pattern of cell types constituting the mature structure. A novel segment-polarity gene known as dispatched has been identified in *Drosophila* and its protein product is required for normal Hedgehog (Hh) signaling. This gene is one of two human homologs of *Drosophila* dispatched and, based on sequence identity to its mouse counterpart, the encoded protein may play an essential role in Hh patterning activities in the early embryo.

Alternative Names

DISP1; DISPA; protein dispatched homolog 1; dispatched A; Dispatched RND transporter family member 1

Gene ID

[84976](#)

UniProt ID

[Q96F81](#)