Datasheet for ABIN1589743

MESP1 Protein

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Overview

Quantity:	50 µg
Target:	MESP1
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant

Product Details

Sequence:	MAQPLCPPLS ESWMLSAAWG PTRRPPPSDK DCGRSLVSSP DSWGSTPADS PVASPARPGT LRDPRAPSVG RRGARSSRLG SGQRQSASER EKLRMRTLAR ALHELRRFLP PSVAPAGQSL TKIETLRLAI RYIGHLSAVL GLSEESLQRR CRQRGDAGSP RGCPLCPDDC PAQMQTRTQA EGQGQGRGLG LVSAVRAGAS WGSPPACPGA RAAPEPRDPP ALFAEAACPE GQAMEPSPPS PLLPGDVLAL LETWMPLSPL EWLPEEPK
Characteristics:	Length (AA): 268 Chromosomal location: 15q26.1
Purity:	> 95 % by SDS-PAGE. Visualized by silver stain

Target Details

Target:	MESP1
Alternative Name:	MesP1 (MESP1 Products)
Background:	ES-cell-based cardiovascular repair requires an in-depth understanding of the molecular mechanisms underlying the differentiation of cardiovascular ES cells. A candidate cardiovascular-fate inducer is the bHLH transcription factor MesP1 (1,2). As one of the earliest

Target Details

	markers, it is expressed specifically in almost all cardiovascular precursors and is required for cardiac morphogenesis (2,3). It was shown that MesP1 is a key factor sufficient to induce the formation of ectopic heart tissue in vertebrates and increase cardiovasculogenesis by ES cells. Electrophysiological analysis showed all subtypes of cardiac ES-cell differentiation (4). MesP1 overexpression and knockdown experiments revealed a prominent function of MesP1 in a gene regulatory cascade, causing Dkk-1-mediated blockade of canonical Wnt-signalling. Independent evidence from ChIP and in vitro DNA-binding studies, expression analysis in wild-type and MesP knockout mice, and reporter assays confirm that Dkk-1 is a direct target of MesP1. Synonyms: MESP1, bHLHc5
Molecular Weight:	34 kDa
NCBI Accession:	NM_018670, NP_061140
UniProt:	Q9BRJ9
Pathways:	Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	Not determined yet.
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Human MesP1 should be reconstituted in sterile water to a concentration of 0.1 mg/mL. This solution can be diluted in water or other buffer solutions or stored at -20 °C.
Buffer:	0.5X PBS
Handling Advice:	Freeze/thaw cycles will result in significant loss of activity.
Storage:	0 °C
Storage Comment:	The lyophilized human MesP1, though stable at room temperature, is best stored desiccated below 0 °C.