

Datasheet for ABIN1589957 **anti-MESP1 antibody**



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Overview

Quantity:	100 µg
Target:	MESP1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MESP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	MesP1 antibody
Immunogen:	Recombinant human MesP1 (RT #300-060)
Isotype:	IgG
Specificity:	Recombinant human MesP1
Characteristics:	Chromosomal location: 15q26.1
Purification:	Protein A purified

Target Details

Target:	MESP1
Alternative Name:	MesP1 (MESP1 Products)
Background:	MESP1, bHLHc5,ES-cell-based cardiovascular repair requires an in-depth understanding of the

Target Details

molecular mechanisms underlying the differentiation of cardiovascular ES cells. A candidate cardiovascular-fate inducer is the bHLH transcription factor MesP1. As one of the earliest markers, it is expressed specifically in almost all cardiovascular precursors and is required for cardiac morphogenesis. It was shown that MesP1 is a key factor sufficient to induce the formation of ectopic heart tissue in vertebrates and increase cardiogenesis by ES cells. Electrophysiological analysis showed all subtypes of cardiac ES-cell differentiation. 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 MesP1 knockout mice, and reporter assays confirm that Dkk-1 is a direct target of MesP1.

Gene ID: 55897

NCBI Accession: [NM_018670](#), [NP_061140](#)

UniProt: [Q9BRJ9](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: Western Blot: Use 1-5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.

Buffer: PBS

Handling Advice: Centrifuge vial prior to opening.

Storage: 4 °C, -20 °C

Storage Comment: The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen aliquots.

Expiry Date: 24 months