

Rabbit Anti-Human MesP1

ORDERING INFORMATION

Catalog Number:	102-PA52
Size:	100 µg
Formulation:	Polyclonal Antibody ; Lyophilized
Synonyms:	MESP1; bHLHc5
Antigen:	Recombinant human LIF (RT #200-008)
Application:	WB,IHC
NCBI Gene ID:	55897
Buffer:	PBS pH 7.4 w/o preservative

Description:

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 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 cardiovascularogenesis 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.

Reconstitution:

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

Stability:

The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8 °C. Frozen aliquots are stable for at least 6 months when stored at -20 °C. **Avoid repeated freeze-thaw cycles!**

Optimal dilutions should be determined by each laboratory for each application.

The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users!

This product is sold for Research Use Only !