



# HAND1 rabbit pAb

Cat No.:ES8040

For research use only

## Overview

<b>Product Name</b>	HAND1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human HAND1. AA range:141-190
<b>Specificity</b>	HAND1 Polyclonal Antibody detects endogenous levels of HAND1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Heart- and neural crest derivatives-expressed protein 1
<b>Gene Name</b>	HAND1
<b>Cellular localization</b>	Nucleus, nucleoplasm . Nucleus, nucleolus . Interaction with MDFIC sequesters it into the nucleolus, preventing the transcription factor activity. Phosphorylation by PLK4 disrupts the interaction with MDFIC and releases it from the nucleolus, leading to t
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	9421
<b>Human Swiss-Prot Number</b>	O96004
<b>Alternative Names</b>	HAND1; BHLHA27; EHAND; Heart- and neural crest derivatives-expressed protein 1; Class A basic





## Background

helix-loop-helix protein 27; bHLHa27;  
Extraembryonic tissues; heart, autonomic nervous  
system and neural crest derivatives-expressed  
protein 1; eH

The protein encoded by this gene belongs to the basic helix-loop-helix family of transcription factors. This gene product is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation. [provided by RefSeq, Jul 2008],

Immunofluorescence analysis of A549 cells, using HAND1 Antibody. The picture on the right is blocked with the synthesized peptide.

