Data Sheet (Cat.No.TMAB-06878)

TargetMol

Anti-HAND1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 24 kDa. Actual: 25 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Placenta (Mouse) Lysate at 40 µg HL-60 Cell (Human) Lysate at 40 µg Primary: Anti-HAND1 (TMAB-06878) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG at 1/5000 dilution Predicted band size: 24 kD Observed band size: 26 kD 2. Sample: HL-60 (Human) Cell Lysate at 30 µg Primary: Anti-HAND1 (TMAB-06878) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 24 kD Observed band size: 25 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human HAND1
Antigen Species:	Human
Gene ID:	9421
Uniprot ID:	O96004

Research Background

Transcription factor that plays an essential role in both trophoblast-giant cells differentiation and in cardiac morphogenesis. In the adult, could be required for ongoing expression of cardiac-specific genes.dHAND (for deciduum, heart, autonomic nervous system and neural crest derivatives; also designated HAND2) and eHAND (also designated HAND1, HXT or Thing1) are members of a subclass of basic-helix-loop-helix transcription factors that are involved in cardiac development. dHAND and eHAND are expressed in the heart after cardiac looping, and they participate in left-right cardiac asymmetry. dHAND is expressed predominantly on the right side of the looped heart

tube and in the pulmonary ventricle, where it activates transcription of various genes, including Ufd1 (for ubiquitin fusion degradation) and Cdc45. In addition, dHAND is expressed in sympathetic neurons and chromafin cells throughout embryonic and fetal development and mediates neural crest development. eHAND expression is primarily observed on the left side and in the systemic ventricle, suggesting that these proteins are involved in the development of segments of the heart tube, which give rise to specific heart chambers during cardiogenesis.

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