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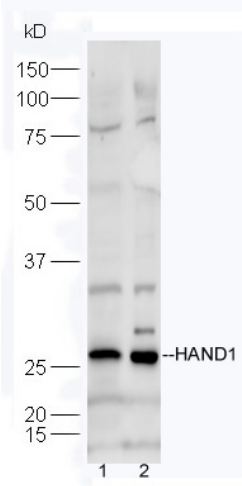
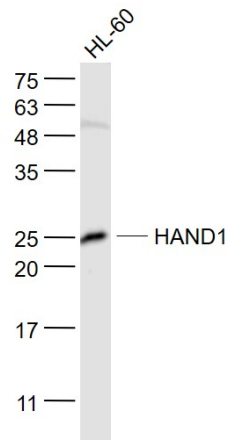
HAND1 Rabbit pAb

Catalog Number:	bs-9459R
Target Protein:	HAND1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000)
Reactivity:	Human, Mouse, Dog (predicted:Rat, Rabbit, Pig, Sheep, Cow, Chicken)
Predicted MW:	24 kDa
Entrez Gene:	9421
Swiss Prot:	O96004
Source:	KLH conjugated synthetic peptide derived from human HAND1: 101-200/215.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
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.

VALIDATION IMAGES



Sample: Placenta (Mouse) Lysate at 40 ug HL-60 Cell (Human) Lysate at 40 ug Primary: Anti-HAND1 (bs-9459R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 24 kD Observed band size: 26 kD



Sample: HL-60(Human) Cell Lysate at 30 ug Primary: Anti- HAND1 (bs-9459R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 24 kD Observed band size: 25 kD

PRODUCT SPECIFIC PUBLICATIONS

[IF=12.153] Tang, Chao. et al. RGS2 promotes estradiol biosynthesis by trophoblasts during human pregnancy. EXP MOL MED. 2023 Jan;:1-13 WB ; Human . 36653442

[IF=4.275] Haibin Zhu. et al. Human HAND1 Inhibits the Conversion of Cholesterol to Steroids in Trophoblasts. J Genet Genomics. 2021 Aug;: IP ; Human . 34391879