SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HAND2 antibody

Catalog Number: SL22974R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HAND2
Immunogen:	KLH conjugated synthetic peptide derived from human HAND2: 51-150/217
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Cow,Rabbit)
Predicted MW.:	24kDa
Subcellular Location:	The nucleus
Background:	Essential for cardiac morphogenesis, particularly for the formation of the right ventricle and of the aortic arch arteries. Required for vascular development and regulation of angiogenesis, possibly through a VEGF signaling pathway. Plays also an important role in limb development, particularly in the establishment of anterior-posterior polarization, acting as an upstream regulator of sonic hedgehog (SHH) induction in the limb bud. Is involved in the development of branchial arches, which give rise to unique structures in the head and neck. Binds DNA on E-box consensus sequence 5'-CANNTG-3'. **Function:** Essential for cardiac morphogenesis, particularly for the formation of the right ventricle and of the aortic arch arteries. Required for vascular development and regulation of angiogenesis, possibly through a VEGF signaling pathway. Plays also an important role in limb development, particularly in the establishment of anterior-posterior polarization, acting as an

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	upstream regulator of sonic hedgehog (SHH) induction in the limb bud. Is involved in the development of branchial arches, which give rise to unique structures in the head and neck. Binds DNA on E-box consensus sequence 5'-CANNTG-3' (By similarity). **Subunit:** Efficient DNA binding requires dimerization with another bHLH protein. Forms homodimers and heterodimers with TCF3 gene products E12 and E47, HAND1 and HEY1, HEY2 and HEYL (hairy-related transcription factors). **Subcellular Location:** Nucleus. **Tissue Specificity:** Heart. **Similarity:** Contains 1 basic helix-loop-helix (bHLH) domain. **Database links:** **Entrez Gene:** 9464 Human **Entrez Gene:** 15111 Mouse **Entrez Gene:** 64637 Rat **Entrez Gene:** 58150 Zebrafish Omim: 602407 Human **SwissProt:** Q90690 Chicken **SwissProt:** P61296 Human **SwissProt:** Q61039 Mouse **SwissProt:** P61295 Rat **SwissProt:** P57102 Zebrafish **Unigene:** 388245 Human **Unigene:** 261588 Mouse **Unigene:** 430844 Mouse **Unigene:** 36496 Rat **Unigene:** 41057 Rat **Unigene:** 81423 Zebrafish **Unigene:** 8328 Zebrafish

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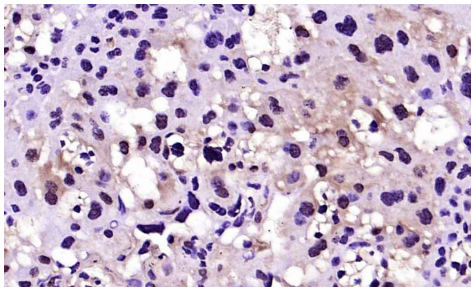
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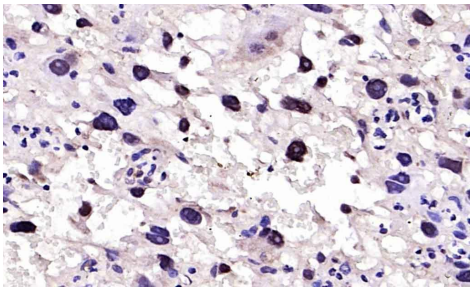
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[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HAND2) Polyclonal Antibody, Unconjugated (SL22974R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HAND2) Polyclonal Antibody, Unconjugated (SL22974R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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