



Rabbit Anti-HAND2 antibody

SL6935R

Product Name:	HAND2
Chinese Name:	心脏和神经嵴衍生蛋白2抗体
Alias:	DHAND 2; dHAND; DHAND2; Ehand 2; Ehand2; FLJ16260; HAND 2; Hand2; autonomic nervous system and neural crest derivatives-expressed protein 2; heart; Basic helix loop helix transcription factor HAND2; bHLHa26; Class A basic helix-loop-helix protein 26; Deciduum; Deciduum heart autonomic nervous system and neural crest derivatives expressed protein 2 antibody HAND2_HUMAN; Heart and neural crest derivatives expressed 2; Heart and neural crest derivatives expressed protein 2; heart and neural crest derivatives expressed transcript 2; Heart- and neural crest derivatives-expressed protein 2; Hed; Highly similar to dHAND M musculus; MGC125303; MGC125304; Th 2; Th2; Thing 2; Thing2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	24kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HAND2:101-200/217
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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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 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).

Product Detail:**Subcellular Location:**

Nucleus.

Tissue Specificity:

Heart.

Similarity:

Contains 1 basic helix-loop-helix (bHLH) domain.

SWISS:

P61296

Gene ID:

9464

Database links:

[Entrez Gene: 9464](#)Human

[Entrez Gene: 15111](#)Mouse

[Entrez Gene: 64637](#)Rat

[Entrez Gene: 58150](#)Zebrafish

[Oimim: 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

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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