10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HAND2 Rabbit pAb

Catalog # AP97696

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P61296
Other Accession	P61296
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23666
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HAND2
Epitope Specificity	51-150/217
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 basic helix-loop-helix (bHLH) domain.
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).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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'.

Additional Information

Gene ID	9464
Other Names	DHAND2; Hed; Thing2; bHLHa26; dHand; Ehand2; Th2; han; zdHAND; zgc:103415; HAND2_CHICK; HAND2; Deciduum, heart, autonomic nervous system and neural crest derivatives-expressed protein 2 (dHAND); HAND2_HUMAN; Class A basic helix-loop-helix protein 26 (bHLHa26); HAND2_MOUSE; Helix-loop-helix transcription factor expressed in embryo and deciduum; Thing-2; HAND2_RAT; HAND2_DANRE; heart and neural crest derivatives expressed 2
Dilution	IHC-P=1:400-800,IHC-F=1:400-800,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	HAND2
Synonyms	BHLHA26, DHAND
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. Also plays 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).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.
Tissue Location	Heart.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.