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HEY2 Rabbit pAb

Catalog # AP99231

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UBP5
Other Accession	Q9UBP5
Predicted	Rat, Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35808
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HEY2
Epitope Specificity	31-130/337
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the HEY family. Contains 1 bHLH (basic helix-loop-helix) domain. Contains 1 Orange domain.
SUBUNIT	May self-associate (By similarity). Interacts with GATA4, HES1 and HEYL (By similarity). Interacts with HDAC1, NCOR1 and SIN3A (By similarity). Interacts with ARNT and GATA6.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The LIN-12/Notch family of transmembrane receptors plays a central role in development by regulating cell fate and establishing boundaries of gene expression. Notch signaling activates the Hairy/Enhancer of split (HES) genes, which encode basic helix-loop-helix (bHLH) transcriptional repressors that are critical for directing embryonic patterning and development. The Hairy-related transcription factors (HRTs) comprise a subclass of bHLH proteins that exhibit structural similarity with the HES proteins and include HRT1, HRT2 and HRT3. The HRT family (also designated Hesr, Hey, CHF and Gridlock) contain a bHLH domain, an Orange domain and a novel YRPW domain, which is absent in HRT3. The Hairy-related genes map to human chromosomes 8q21, 6q21 and 1p34.3 for HRT1, HRT2 and HRT3, respectively, and are downstream targets for Notch signaling. HRT1 is expressed in the somitic mesoderm, central nervous system, kidney, heart, nasal epithelium and limb buds in murine embryos as well as in adult tissues. It has altered expression in many breast, lung and kidney tumors. Like HRT1, HRT2 and HRT3 are also expressed in developing somites, heart and nervous system.

Additional Information

Gene ID	23493
Other Names	CHF1; GRIDLOCK; GRL; HERP1; HESR2; HRT2; bHLHb32; HEY2_HUMAN; HEY2; Cardiovascular helix-loop-helix factor 1 (hCHF1); Class B basic helix-loop-helix

	protein 32 (bHLHb32); HES-related repressor protein 2; Hairy and enhancer of split-related protein 2 (HESR-2); Hairy-related transcription factor 2 (HRT-2 | hHRT2); Protein gridlock homolog; HERP; HEY2_MOUSE; Hairy-related transcription factor 2 (HRT-2 | mHRT2); hes related family bHLH transcription factor with YRPW motif 2; hairy/enhancer-of-split related with YRPW motif 2; hes-related family bHLH transcription factor with YRPW motif 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	HEY2
Synonyms	BHLHB32, CHF1, GRL, HERP, HERP1, HRT2
Function	Downstream effector of Notch signaling which may be required for cardiovascular development. Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-CACGTG-3'. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00380, ECO:0000255|PROSITE-ProRule:PRU00981}

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