Product Name: HRT2 Rabbit Polyclonal Antibody
Catalog #: APRab12211

Summary

Production Name	HRT2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	HEY2
Alternative Names	HEY2; BHLHB32; CHF1; GRL; HERP; HERP1; HRT2; Hairy/enhancer-of-split related with YRPW motif protein 2; Cardiovascular helix-loop-helix factor 1; hCHF1; Class B basic helix-loop-helix protein 32; bHLHb32; HES-related repressor protein 2; Ha
Gene ID	23493.0
SwissProt ID	Q9UBP5. The antiserum was produced against synthesized peptide derived from human HEY2. AA range:21-70

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	36kDa

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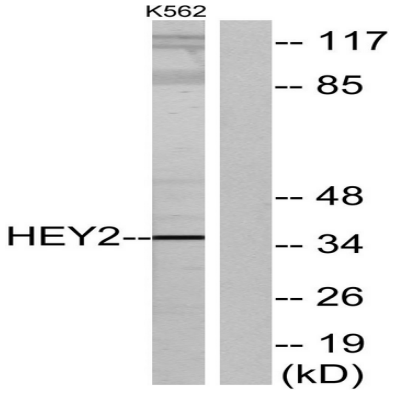
Background

This gene encodes a member of the hairy and enhancer of split-related (HESR) family of basic helix-loop-helix (bHLH)-type transcription factors. The encoded protein forms homo- or hetero-dimers that localize to the nucleus and interact with a histone deacetylase complex to repress transcription. Expression of this gene is induced by the Notch signal transduction pathway. Two similar and redundant genes in mouse are required for embryonic cardiovascular development, and are also implicated in neurogenesis and somitogenesis. Alternatively spliced transcript variants have been found, but their biological validity has not been determined. [provided by RefSeq, Jul 2008],disease:Defects in HEY2 may be involved in atrioventricular septal defects (AVSD).,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.,similarity:Belongs to the HEY family.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,similarity: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.,

Research Area

Image Data



Western blot analysis of lysates from K562 cells, using HEY2 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.