



Anti-HEY2 monoclonal antibody (DCABH-11873)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | 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. |
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| Immunogen | A synthetic peptide of human HEY2 is used for rabbit immunization. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Protein A |
| Conjugate | Unconjugated |
| Applications | Western Blot (Transfected lysate); ELISA |
| Buffer | In 1x PBS, pH 7.4 |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | HEY2 hairy/enhancer-of-split related with YRPW motif 2 [Homo sapiens] |
| Official Symbol | HEY2 |
| Synonyms | HEY2; hairy/enhancer-of-split related with YRPW motif 2; hairy/enhancer-of-split related with YRPW motif protein 2; bHLHb32; HERP1; HRT-2; hCHF1; hHRT2; HESR-2; protein gridlock homolog; HES-related repressor protein 1; HES-related repressor protein 2; hairy-related transcription factor 2; cardiovascular helix-loop-helix factor 1; class B basic helix-loop-helix protein 32; hairy and enhancer of split-related protein 2; cardiovascular basic helix-loop-helix factor 1; GRL; CHF1; HRT2; HESR2; GRIDLOCK; MGC10720; |
| Entrez Gene ID | 23493 |
| Protein Refseq | NP_036391 |
| UniProt ID | Q9UBP5 |
| Chromosome Location | 6q |
| Pathway | Delta-Notch Signaling Pathway, organism-specific biosystem; Heart Development, organism-specific biosystem; NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH1, organism-specific biosystem; |
| Function | DNA binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity; RNA polymerase II core promoter sequence-specific DNA binding transcription factor activit |