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Datasheet for ABIN1402848 **anti-HEY2 antibody (Alexa Fluor 647)**

Overview

Quantity:	100 µL
Target:	HEY2
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HEY2 antibody is conjugated to Alexa Fluor 647
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human HEY2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	HEY2
Alternative Name:	HEY2 (HEY2 Products)
Background:	Synonyms: bHLHb32, Cardiovascular helix loop helix factor 1, Cardiovascular helix-loop-helix factor 1, CHF1, Class B basic helix-loop-helix protein 32, GRIDLOCK, GRL, Hairy and enhancer of split related 2, Hairy and enhancer of split-related protein 2, Hairy related transcription factor 2, Hairy-related transcription factor 2, Hairy/enhancer-of-split related with YRPW motif protein 2,

Target Details

hCHF1, HERP, HERP1, HES related repressor protein 1, HES-related repressor protein 2, HESR-2, HESR2, HEY2, HEY2_HUMAN, hHRT2, HRT-2, HRT2, Protein gridlock homolog.

Background: 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.

Gene ID: 23493

Pathways: [Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Handling

Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months