Product datasheet

Anti-HEY1 antibody ab22614

7 Abreviews 39 References 5 Images

Overview

Product name
Anti-HEY1 antibody

Description
Rabbit polyclonal to HEY1

Host species
Rabbit

Tested applications
Suitable for: IHC-Fr, ICC/IF, WB, IHC-P

Species reactivity
Reacts with: Mouse, Human

Predicted to work with: Rat, Horse, Guinea pig, Cat, Dog

Immunogen
Synthetic peptide within Human HEY1 aa 197-246 (C terminal). The exact sequence is proprietary.
Sequence:
PQNGHGNAGTTASPTEPHHQRLGSAHPEAPALRAP
PSGSFGPVLPPVTS

Database link: Q9Y5J3
( Peptide available as ab111660 )

Positive control
Jurkat cells, Fetal lung lysate, Human lung or Human kidney tissue.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer
Preservative: 0.09% Sodium azide
Constituents: 2% Sucrose, PBS

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab22614 in the following tested applications.
**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.

**Tissue specificity**
Expressed in the somitic mesoderm, the central nervous system, the kidney, the heart, nasal epithelium, and limbs.

**Sequence similarities**
Belongs to the HEY family. Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 Orange domain.

**Cellular localization**
Nucleus.

**Application**

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreview(s)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 34 kDa. Can be blocked with Human HEY1 peptide (ab111660). 5% skim milk / PBS buffer, and HRP conjugated anti-Rabbit IgG should be diluted in 1/50,000 - 100,000 as second antibody. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

**Images**

**Predicted band size: 34 kDa**

Western blot - Anti-HEY1 antibody (ab22614)
**Western blot** - Anti-HEY1 antibody (ab22614)

* Lane 1: Anti-HEY1 antibody (ab22614) at 5 µg/ml
* Lane 2: Anti-HEY1 antibody (ab22614) at 2.5 µg/ml
* Lane 3: Anti-HEY1 antibody (ab22614) at 1.25 µg/ml

**All lanes**: Cell lysate prepared from human fetal lung cells

Lysates/proteins at 25 µg per lane.

**Predicted band size**: 34 kDa

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)** - Anti-HEY1 antibody (ab22614)

Paraffin embedded human lung tissue labelled with HEY1 antibody (ab22614) at 4-8µg/ml. Magnification 400X.

Alveolar cells are positively labelled (indicated with arrows).

**Immunocytochemistry/ Immunofluorescence** - Anti-HEY1 antibody (ab22614)

*This image is courtesy of an anonymous Abreview*

**ab14404** staining HEY1 in the COS1 fibroblast cell line from Monkey kidney by ICC/IF

(Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with Triton X-100 0.1% in PBS and blocked with 1% BSA for 30 minutes at 25°C. Samples were incubated with primary antibody (1/200) for 16 hour at 4°C. An Alexa Fluor®488-conjugated Goat anti-rabbit IgG polyclonal(1/500) was used as the secondary antibody.
Paraffin embedded human kidney tissue labelled with HEY1 antibody (ab22614) at 4-8µg/ml. Magnification 400X.

Epithelial cells of renal tubules are positively labelled (indicated with arrows).

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