

Datasheet for ABIN2779597  
**anti-HES1 antibody (N-Term)**



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8 Images

12 Publications

### Overview

Quantity:	100 µL
Target:	HES1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Rabbit, Zebrafish (Danio rerio), Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HES1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human HES1
Sequence:	NTTPDKPKTA SEHRKSSKPI MEKRRRARIN ESLSQLKTLI LDALKKDSSR
Predicted Reactivity:	Cow: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against HES1. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

### Target Details

Target:	HES1
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## Target Details

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Alternative Name:	HES1 ( <a href="#">HES1 Products</a> )
Background:	<p>HES1 belongs to the basic helix-loop-helix family of transcription factors. It is a transcriptional repressor of genes that require a bHLH protein for their transcription. The protein has a particular type of basic domain that contains a helix interrupting protein that binds to the N-box rather than the canonical E-box.</p> <p>Alias Symbols: HHL, HRY, HES-1, bHLHb39</p> <p>Protein Interaction Partner: STAT3, JAK2, APH1A, LTBR, ASGR2, TLE1, ELAVL1, PARP1, UBC, NUDT3, HDAC6, YWHAB, PTK2, NR4A1, HMGCL, GAPDH, FHL1, CSNK1E, APCS, FANCE, FANCC, FANCA, FANCL, SPTAN1, HSP90AA1, HSPA4, FANCG, FANCF, HDAC1, RUNX2, HES6, ID4, ID1, SIRT1, UBQLN1, HEY2, ID2, ID3,</p> <p>Protein Size: 280</p>
Molecular Weight:	30 kDa
Gene ID:	3280
NCBI Accession:	<a href="#">NM_005524</a> , <a href="#">NP_005515</a>
UniProt:	<a href="#">Q14469</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

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Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 280 AA
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -20 °C

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Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

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Product cited in: Sun, Zhou, Liu, Zhang, Chen, Pan, Ma, Liu, Du, Yang, Wang: "Inhibition of breast cancer cell survival by Xanthohumol via modulation of the Notch signaling pathway in vivo and in vitro." in: **Oncology letters**, Vol. 15, Issue 1, pp. 908-916, (2018) ([PubMed](#)).

Natsumeda, Maitani, Liu, Miyahara, Kaur, Chu, Zhang, Kahlert, Eberhart: "Targeting Notch Signaling and Autophagy Increases Cytotoxicity in Glioblastoma Neurospheres." in: **Brain pathology (Zurich, Switzerland)**, Vol. 26, Issue 6, pp. 713-723, (2015) ([PubMed](#)).

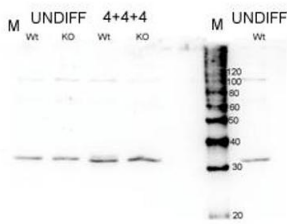
Meng, Su, Liu, Wang, Wang: "Rac1 contributes to cerebral ischemia reperfusion-induced injury in mice by regulation of Notch2." in: **Neuroscience**, Vol. 306, pp. 100-114, (2015) ([PubMed](#)).

Ma, Mao, Shen, Zheng, Li, Liu, Ni: "Atractylenolide I-mediated Notch pathway inhibition attenuates gastric cancer stem cell traits." in: **Biochemical and biophysical research communications**, Vol. 450, Issue 1, pp. 353-9, (2014) ([PubMed](#)).

Asnaghi, Lin, Lim, Lim, Tripathy, Wendeborn, Merbs, Handa, Sodhi, Bar, Eberhart: "Hypoxia promotes uveal melanoma invasion through enhanced Notch and MAPK activation." in: **PLoS ONE**, Vol. 9, Issue 8, pp. e105372, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

MES Samples Western Blot anti-Hes 1:800  
12% PAGE



**HES1 (ARP32372\_T100)**

Western Blot

Sample: mouse embryonic stem cells

Primary Dilution: 1:800

Secondary Dilution: 1:5000

Application data in forum

Submitted by:  
Dr. Mahmud Bani-Yaghoub  
University of Ottawa

**Western Blotting**

**Image 1.**



**Western Blotting**

**Image 2.** WB Suggested Anti-HES1

Antibody Titration: 1.25 µg/mL

Positive Control: Raji cell lysate

HES1 is strongly supported by BioGPS gene expression data to be expressed in Human Raji cells

**Western Blotting**

**Image 3.** WB Suggested Anti-HES1 Antibody Titration:

1.25ug/ml Positive Control: Raji cell lysate HES1 is strongly supported by BioGPS gene expression data to be expressed in Human Raji cells

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2779597.