Datasheet for ABIN682393

anti-HES1 antibody (AA 41-150)

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Overview

Quantity:	100 µL
Target:	HES1
Binding Specificity:	AA 41-150
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HES1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human HES1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	HES1

Target Details

Alternative Name:	HES1 (HES1 Products)
Background:	Synonyms: HHL, HRY, HES-1, bHLHb39, Transcription factor HES-1, Class B basic helix-loop-helix protein 39, Hairy and enhancer of split 1, Hairy homolog, Hairy-like protein, HES1, HL Background: Transcriptional repressor of genes that require a bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1. Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG-3' with low affinity (By similarity). May play a role in a functional FA core complex response to DNA cross-link damage, being required for the stability and nuclear localization of FA core complex proteins, as well as for FANCD2 monoubiquitination in response to DNA damage.
Gene ID:	3280
UniProt:	Q14469
Pathways:	DNA Damage Repair

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % 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.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

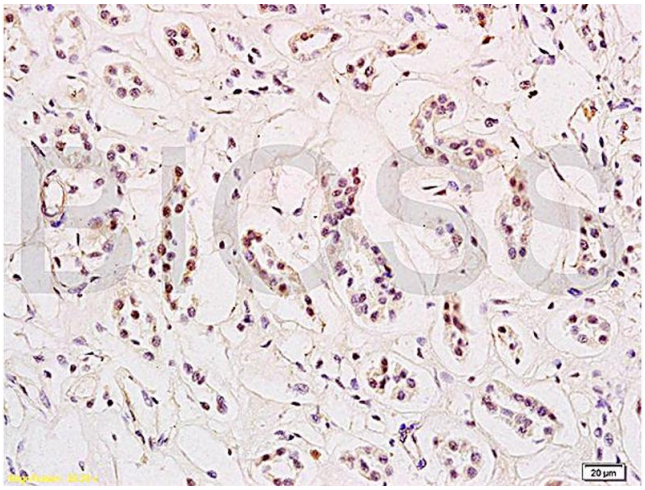
Product cited in:

Shi, Shu, Yang, Xu, Xing, Liu, Chen, Qi, Liu, Wang, Tang, Xie: "Wnt and Notch signaling pathway involved in wound healing by targeting c-Myc and Hes1 separately." in: **Stem cell research & therapy**, Vol. 6, pp. 120, (2015) (PubMed).

Gao, Zhang, Wang, Liu, Zheng, Yang, Huang, Ye, Luo, Xiao: "Hes1 is involved in the self-renewal and tumourigenicity of stem-like cancer cells in colon cancer." in: **Scientific reports**, Vol. 4, pp. 3963, (2014) (PubMed).

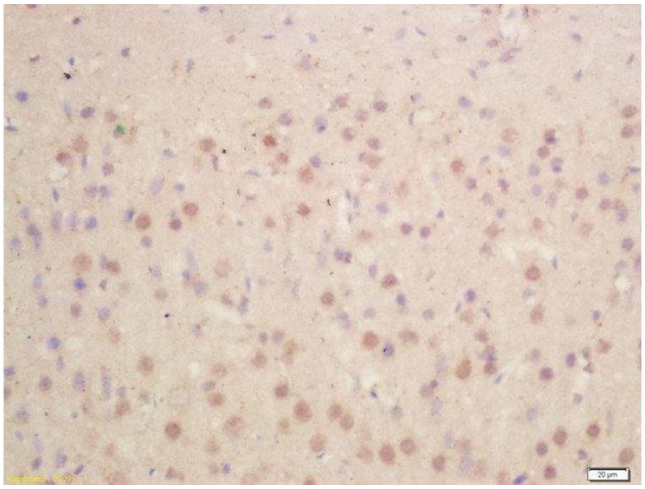
Long, Qiu, Liu, Fei, Feng, Wang, Zhong, Yi, Liu, Zhang, Han: "Functional recovery and neuronal regeneration of a rat model of epilepsy by transplantation of Hes1-down regulated bone marrow stromal cells." in: **Neuroscience**, Vol. 212, pp. 214-24, (2012) (PubMed).

Images



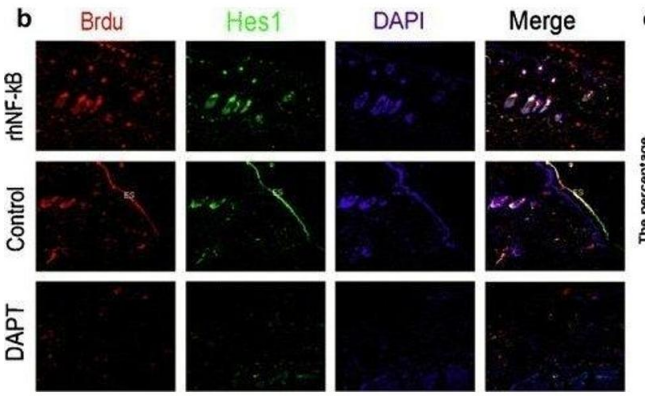
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human kidney tissue labeled with Anti-HES-1 Polyclonal Antibody, Unconjugated (ABIN682393) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Anti-HES1 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence (Cultured Cells)

Image 3. The relationships of the Wnt and Notch signaling pathway and the proliferation of epidermal stem cells was analyzed by immunofluorescence. a and c. Representative BrdU/c-Myc double-positive cells in wounded skin on day 7 (a), and the percentage of the positive cells to total cells in wound tissue at the indicated post-wounding time points (c). b and d. Representative BrdU/Hes1 double-positive cells in wounded skin on day 7 (b), and the percentage of the positive cells to total cells in wound tissue at the indicated post-wounding time points (d). *P < 0.01, **P < 0.05 compared with the control value (n = 5). Original magnification, 100x. Scale bar = 100 μm. BrdU 5-bromodeoxyuridine, DAPT N-[N-(3,5-difluorophenacetyl)-L-alanyl]-S-phenylglycine t-butyl ester, DKK1 Dickkopf-1, Hes hairy and enhancer of split, LiCl lithium chloride, rhNF-κB recombinant human nuclear factor-kappa-B - figure provided by CiteAb. Source: PMID26076648

Please check the product details page for more images. Overall 4 images are available for ABIN682393.