

HES1 Rabbit pAb

Catalog Number: bs-2972R

Target Protein: HES1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test), ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Horse)

Predicted MW: 30 kDa

Entrez Gene: 3280

Swiss Prot: Q14469

Source: KLH conjugated synthetic peptide derived from human HES1: 41-150/280.

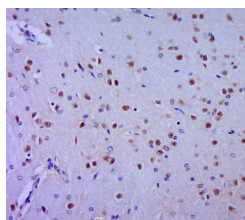
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

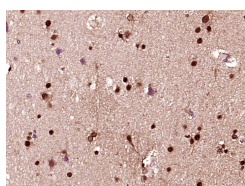
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

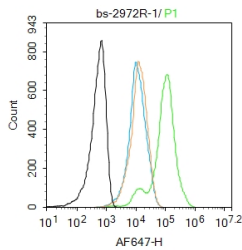
VALIDATION IMAGES



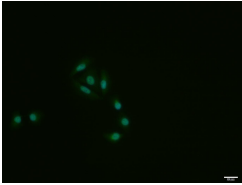
Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HES1) Polyclonal Antibody, Unconjugated (bs-2972R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



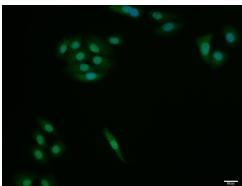
Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HES1) Polyclonal Antibody, Unconjugated (bs-2972R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-HES1 antibody (bs-2972R) Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



MCF-7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HES1) polyclonal Antibody, Unconjugated (bs-2972R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



MCF-7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HES1) polyclonal Antibody, Unconjugated (bs-2972R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.17] Wang et al. Hes1 triggers epithelial-mesenchymal transition (EMT)-like cellular marker alterations and promotes invasion and metastasis of nasopharyngeal carcinoma by activating the PTEN/AKT pathway. (2015) Oncotarget. 6:36713-30 WB,IHC ; Human . 26452025

[IF=5.008] Gao et al. Hes1 promotes cell proliferation and migration by activating Bmi-1 and PTEN/Akt/GSK3β pathway in human colon cancer. (2015) Oncotarget. 6:38667-80 IHC,ICC,WB ; Human, Mouse . 26452029

[IF=3.6] Yahao Zhao. et al. PEAR1 Promotes Myoblast Proliferation Through Notch Signaling Pathway. BIOLOGY-BASEL. 2024 Dec;13(12):1063 WB ; Mouse . 39765730

[IF=4.486] Chong Yin. et al. MACF1 alleviates aging-related osteoporosis via HES1. 2021 Jun 15 WB,IHC ; Mouse . 34133068

[IF=2.93] Gao, Fei, et al. "Hes1 is involved in the self-renewal and tumourigenicity of stem-like cancer cells in colon cancer." Scientific Reports 4 (2014). IHC ; ="Human" . 24492635