SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HES1 antibody

Catalog Number: SL23073R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HES1
Immunogen:	KLH conjugated synthetic peptide derived from human HES1: 251-280/280
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Pig,Cow,Rabbit,Sheep)
Predicted MW.:	30kDa
Subcellular Location:	The nucleus
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. **Function:** 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. **Subunit:** Transcription repression requires formation of a complex with a corepressor protein of the Groucho/TLE family. Interacts (via WPRW motif) with TLE1, and more weakly with TLE2. Interacts with HES6 (By similarity). Interacts with SIRT1. Interacts with an FA complex, composed of FANCA,

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	FANCF, FANCG and FANCL, but not of FANCC, nor FANCE. **Subcellular Location:** Nucleus. **Similarity:** Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 Orange domain. **Database links:** **Entrez Gene:** 395128 Chicken **Entrez Gene:** 539547 Cow **Entrez Gene:** 3280 Human **Entrez Gene:** 15205 Mouse **Entrez Gene:** 100499567 Pig **Entrez Gene:** 29577 Rat Omim: 139605 Human **SwissProt:** O57337 Chicken **SwissProt:** Q3ZBG4 Cow **SwissProt:** Q14469 Human **SwissProt:** P35428 Mouse **SwissProt:** Q04666 Rat **Unigene:** 250666 Human **Unigene:** 390859 Mouse **Unigene:** 19727 Rat

[VALIDATION IMAGES]

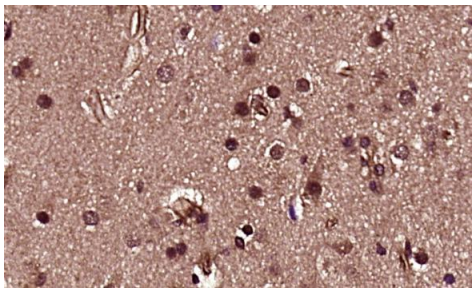


Figure 1. Paraformaldehyde-fixed, paraffin embedded (Human glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HES1) Polyclonal Antibody, Unconjugated (SL23073R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

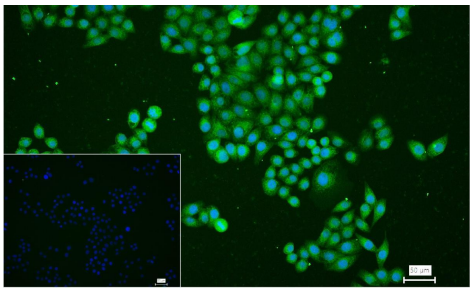


Figure 2. 4% Paraformaldehyde-fixed MCF-7 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HES1) polyclonal Antibody, unconjugated (SL23073R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, SL40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control

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