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Product datasheet for CF504046

HES1 Mouse Monoclonal Antibody [Clone ID: OTI1B5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B5
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human HES1(NP_005515) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	29.4 kDa
Gene Name:	hes family bHLH transcription factor 1
Database Link:	NP_005515 Entrez Gene 15205 MouseEntrez Gene 29577 RatEntrez Gene 3280 Human Q14469

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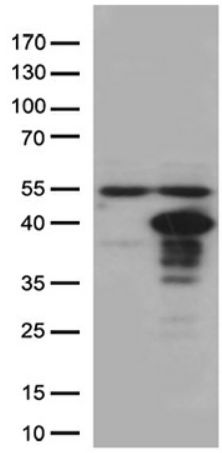
Background: This protein belongs to the basic helix-loop-helix family of transcription factors. It is a transcriptional repressor of genes that require a bHLH protein for their transcription. The protein has a particular type of basic domain that contains a helix interrupting protein that binds to the N-box rather than the canonical E-box. [provided by RefSeq, Jul 2008]

Synonyms: bHLHb39; HES-1; HHL; HRY

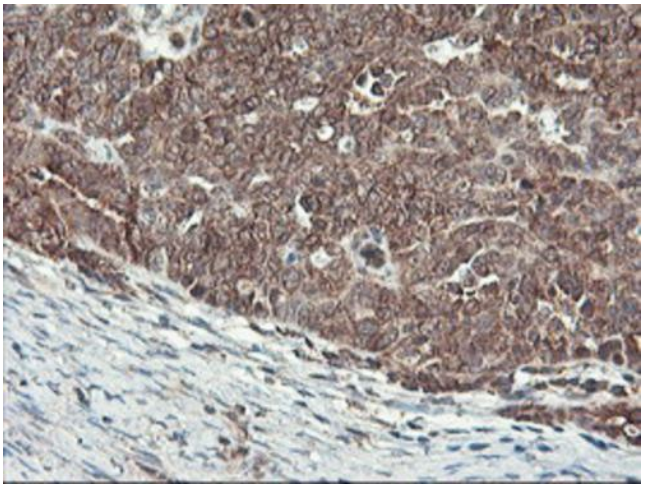
Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young, Notch signaling pathway

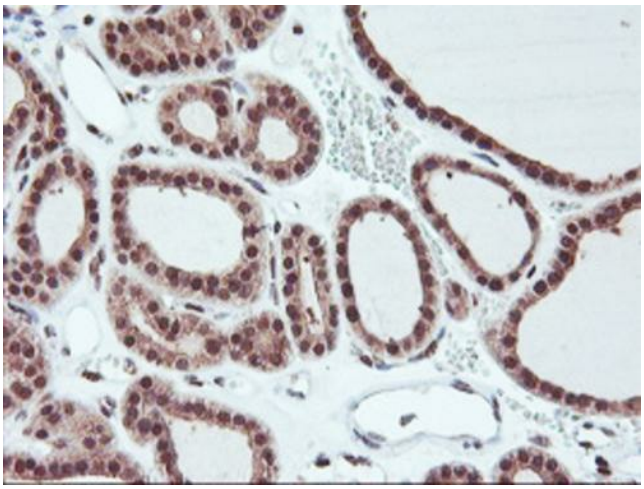
Product images:



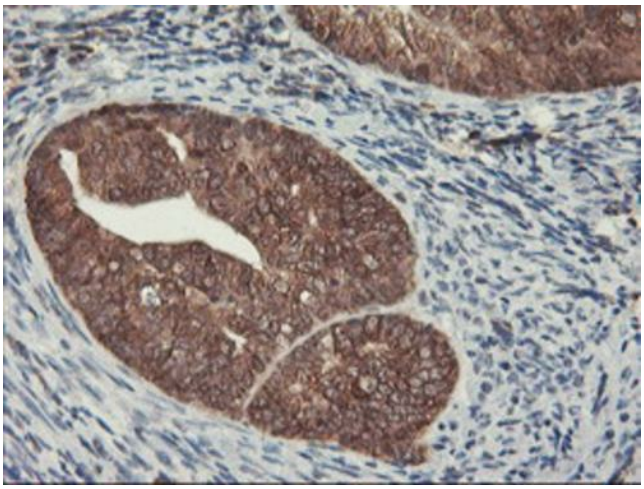
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HES1 ([RC211709], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HES1 (1:500).



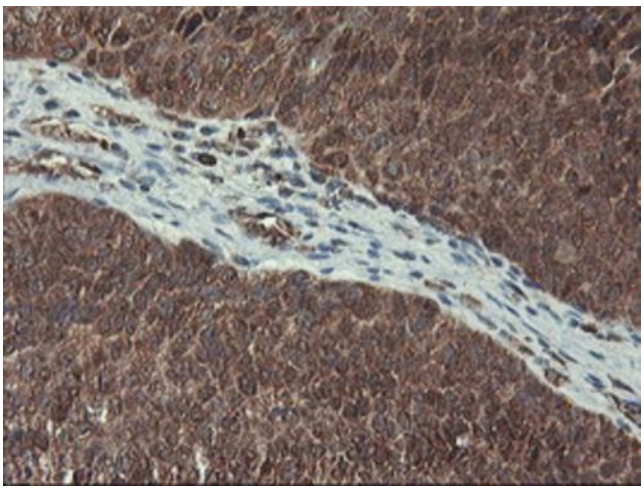
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504046])



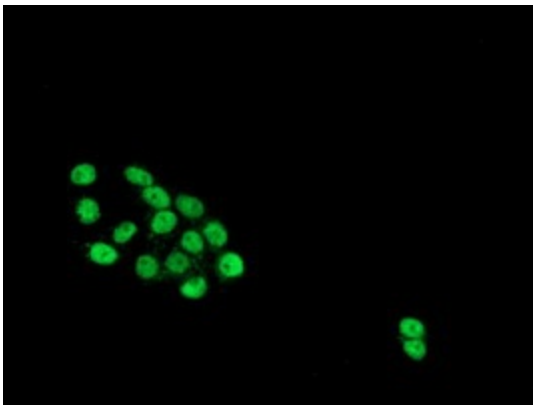
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504046])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504046])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504046])



Anti-HES1 mouse monoclonal antibody ([TA504046]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HES1 ([RC211709]).