

## Product datasheet for TA504001

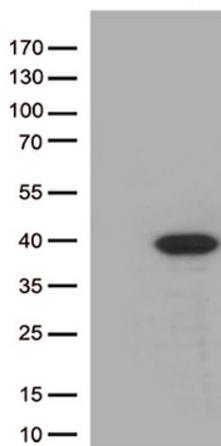
### HES1 Mouse Monoclonal Antibody [Clone ID: OTI2D2]

#### Product data:

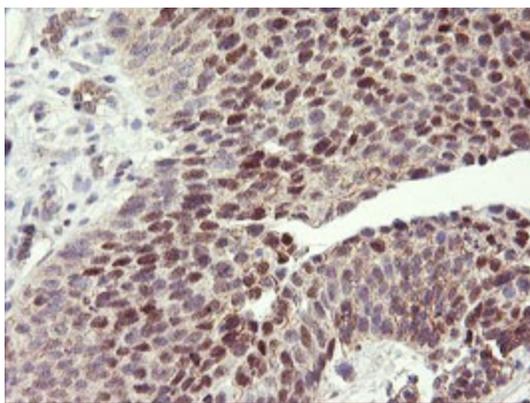
|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI2D2   |
| Applications:           | FC, IF, IHC, WB  |
| Recommend Dilution:     | WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100   |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human HES1(NP_005515) produced in HEK293T cell.   |
| Formulation:            | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.   |
| Concentration:          | 1 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Predicted Protein Size: | 29.4 kDa   |
| Gene Name:              | hes family bHLH transcription factor 1   |
| Database Link:          | <a href="#">NP_005515 Entrez Gene 3280 Human</a>   |
| 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] |
| 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  |



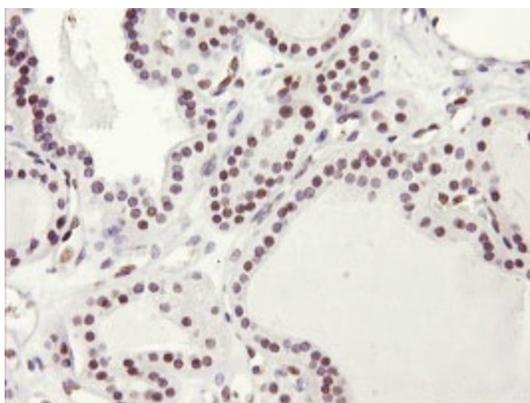
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**Product images:**

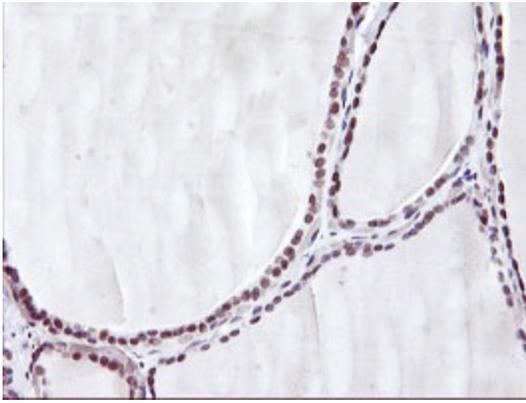
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HES1 ([RC211709], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HES1 (1:500).



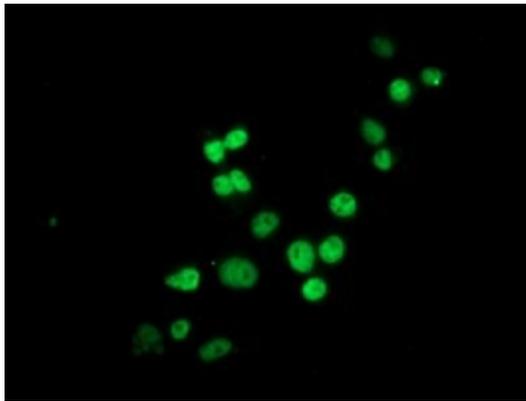
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA504001)



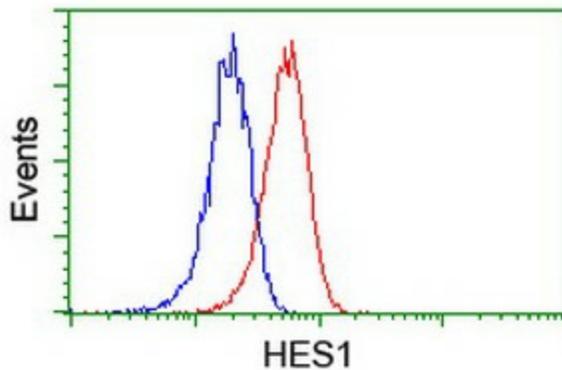
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA504001)



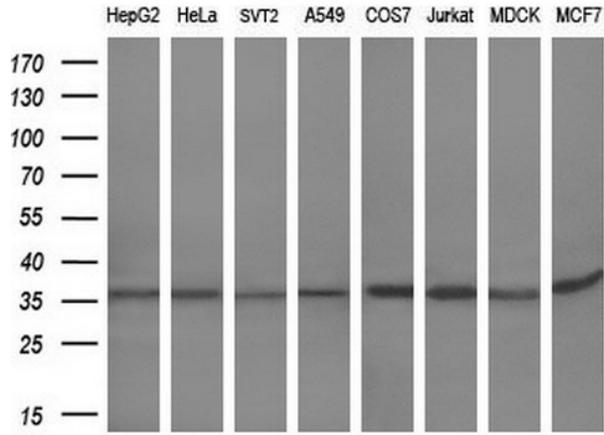
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-HES1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA504001)



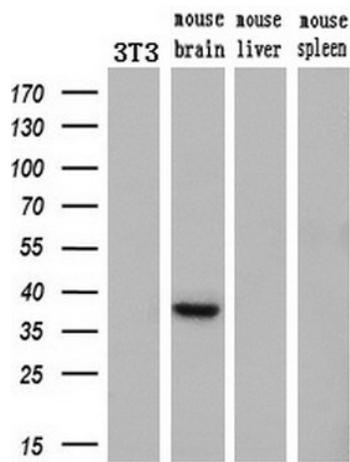
Anti-HES1 mouse monoclonal antibody (TA504001) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HES1 ([RC211709]).



Flow cytometric Analysis of Jurkat cells, using anti-HES1 antibody (TA504001), (Red), compared to a nonspecific negative control antibody, (Blue).



Western blot analysis of extracts (10ug) from 8 different cell lines by using anti-HES1 monoclonal antibody (1:200).



Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-HES1 monoclonal antibody (1:200).