

**DESCRIPTION**

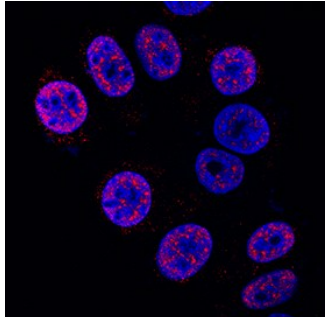
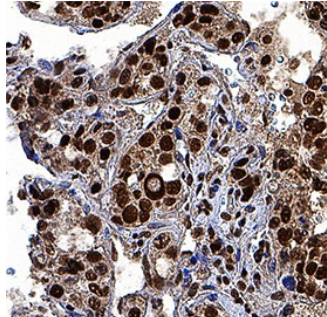
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human HES-1 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 960216
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human HES-1 Asn90-Pro277 Accession # Q14469
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Immunohistochemistry</b>	5-25 µg/mL	See Below

**DATA**

<p><b>Immunocytochemistry</b></p>  <p><b>HES-1 in MCF-7 Human Cell Line.</b> HES-1 was detected in immersion fixed MCF-7 human breast cancer cell line using Mouse Anti-Human HES-1 Monoclonal Antibody (Catalog # MAB3317) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>HES-1 in Human Liver Cancer Tissue.</b> HES-1 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Mouse Anti-Human HES-1 Monoclonal Antibody (Catalog # MAB3317) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for <a href="#">IHC Staining with VisUCyte HRP Polymer Detection Reagents</a>.</p>
---	---

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

HES-1 is a transcriptional repressor that is a target of notch signaling. It contains a basic helix-loop-helix (bHLH) DNA-binding domain, an Orange domain and a C-terminal tetrapeptide WRPW motif that binds to the Groucho (Gro)/TLE/Grg family of corepressors. HES-1 can form both homo- and heterodimers with other HES family members. Dimerization is mediated through both the bHLH and the downstream Orange domain. Over the sequence used for immunization, human HES-1 shares 97% and 98% amino acid sequence identity with mouse and rat HES-1, respectively.