

DESCRIPTION

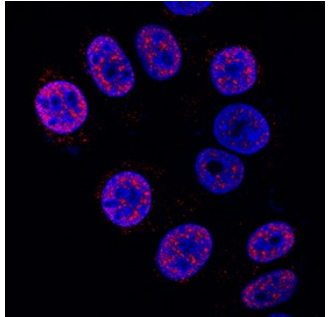
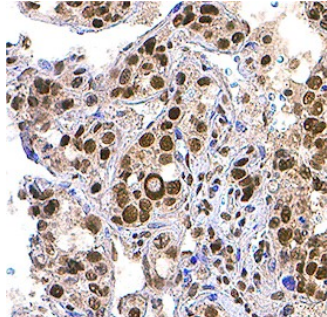
Species Reactivity	Human
Specificity	Detects human HES-1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 960216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HES-1 Asn90-Pro277 Accession # Q14469
Formulation	Lyophilized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

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

DATA

<p>Immunocytochemistry</p>  <p>HES-1 in MCF-7 Human Cell Line. 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 Fluorescent ICC Staining of Cells on Coverslips.</p>	<p>Immunohistochemistry</p>  <p>HES-1 in Human Liver Cancer Tissue. 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 IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.