

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HES-1 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant human (rh) HES-2, rhHES-4, rhHES-5, rhHES-6, and rhHES-7 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HES-1 Arg93-Asn280 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 as a 0.2 µm filtered solution in PBS.

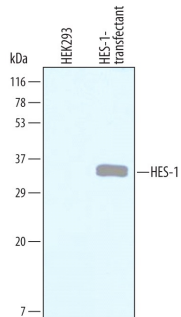
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

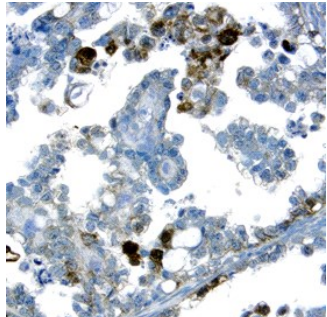
DATA

Western Blot



Detection of Human HES-1 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either mock transfected or transfected with human HES-1. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human HES-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3317) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # [HAF019](#)). A specific band was detected for HES-1 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 8](#).

Immunohistochemistry



HES-1 in Human Ovarian Cancer Tissue. HES-1 was detected in immersion fixed paraffin-embedded sections of human ovarian cancer tissue using Goat Anti-Human HES-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3317) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # [CTS008](#)) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of cancer cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.