

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human HAX-1 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human HAX-1 Ser2-Leu261 Accession # O00165
<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 either lyophilized or as a 0.2 µm filtered solution in PBS.

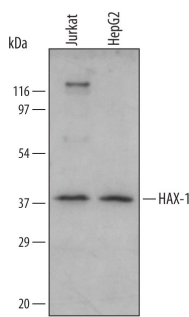
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

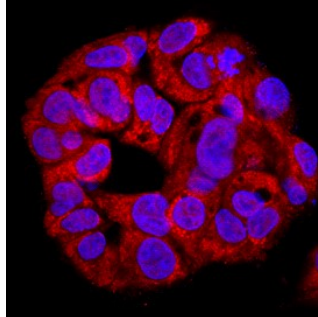
## DATA

**Western Blot**



**Detection of Human HAX-1 by Western Blot.** Western blot shows lysates of Jurkat human acute T cell leukemia cell line and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human HAX-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5458) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for HAX-1 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

**Immunocytochemistry**



**HAX-1 in HepG2 Human Cell Line.** HAX-1 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Goat Anti-Human HAX-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5458) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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

HAX-1 (HCLS1-associated protein X-1; also HS1-binding protein1) is a 34-35 kDa intracellular protein with structural similarity to Bcl-2 family proteins. It is ubiquitously expressed, and participates in a variety of cell-specific functions. HAX-1 blocks cardiomyocyte apoptosis via caspase-9 inhibition, downregulates conjugated bile acid secretion via BSEP binding, and via PKD2, transmits integrin signals to the ER. Human HAX-1 is 279 amino acids (aa) in length and contains two Bcl-2 homology regions (aa 37-56 and 74-89), a PEST domain (aa 104-117) and a potential transmembrane segment (aa 261-279). HS-1 is found mostly in the mitochondria. HAX-1 is also cleaved by caspase-3 at Asp127. Over aa 2-261, human HAX-1 shares 81% aa identity with mouse HAX-1.