

**DESCRIPTION**

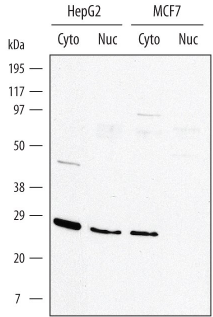
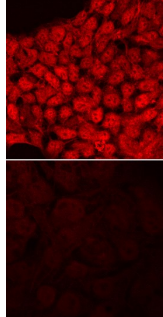
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse ID1 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse ID1 Met1-Glu135 Accession # P20067
<b>Formulation</b>	Lyophilized 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>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Human ID1 by Western Blot.</b> Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and MCF-7 human breast cancer cell line. Gels were loaded with 20 µg of cytoplasmic (Cyto) and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 1 µg/mL Goat Anti-Human/Mouse ID1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4377) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band for ID1 was detected at approximately 25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>ID1 in BG01V Human Embryonic Stem Cells.</b> ID1 was detected in immersion fixed BG01V human embryonic stem cells, undifferentiated (lower panel) and differentiated into neural progenitor cells (upper panel), using Goat Anti-Human/Mouse ID1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4377) 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 nuclei. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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**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**

ID-1a is a negative regulator of helix-loop-helix (HLH) DNA binding proteins. ID-1a contains a HLH motif but no DNA binding motif, therefore, upon binding other HLH proteins, ID-1a acts a dominant negative regulator. ID-1a can be found in both cytoplasmic and nuclear cell fractions. Increased ID-1a expression is associated with cellular proliferation and cancer.