Human/Mouse ID1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4377

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse ID1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse ID1 Met1-Glu135 Accession # P20067
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.

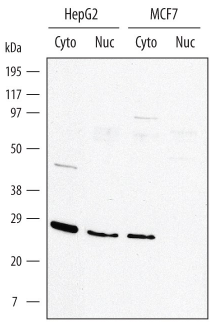
APPLICATIONS

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
Immunocytochemistry	5-15 µg/mL	See Below

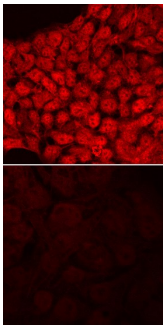
DATA

Western Blot



Detection of Human ID1 by Western Blot. 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.

Immunocytochemistry



ID1 in BG01V Human Embryonic Stem Cells. 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 Fluorescent ICC Staining of Cells on Coverslips.

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.** ● 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

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.