

DESCRIPTION

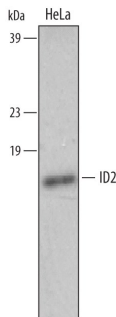
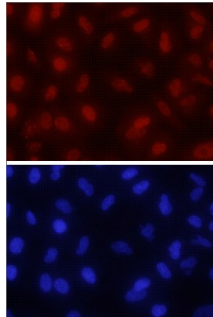
Species Reactivity	Human
Specificity	Detects human ID2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) ID1, rhID3, and rhID4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ID2 Met1-Gly134 Accession # Q02363
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

<p>Western Blot</p>  <p>Detection of Human ID2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human ID2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4660) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for ID2 at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 8</i>.</p>	<p>Immunocytochemistry</p>  <p>ID2 in A549 Human Cell Line. ID2 was detected in immersion fixed A549 human lung carcinoma cell line using 10 µg/mL Human ID2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4660) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red, upper panel; Catalog # NL001) and counterstained with DAPI (blue, lower panel). View our protocol for <i>Fluorescent ICC Staining of Cells on Coverslips</i>.</p>
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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

ID2 (Inhibitor of DNA binding 2; also known as inhibitor of differentiation 2) is a 15 kDa member of the small ID HLH family of proteins. It is a nuclear protein that forms inactivating heterodimers with bHLH transcription factors. bHLH proteins activate lineage-specific genes and ID2. Human ID2 is 134 amino acids (aa) in length. It contains one HLH domain (aa 36-76) but no DNA-binding motif. Full-length human ID2 is 98% aa identical to both mouse and porcine ID2.