Human ID2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4660

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	*E. coli*-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.

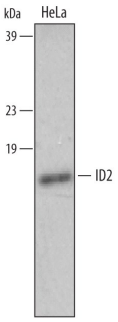
APPLICATIONS

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

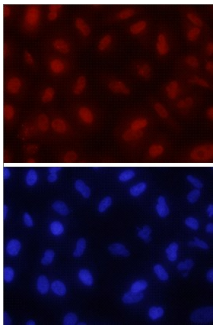
DATA

Western Blot



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 Immunoblot Buffer Group 8.

Immunocytochemistry



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 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

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.

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