Human CHD1L Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6959

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CHD1L in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh) CHD1 and rhCHD5 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human CHD1L Arg759-Lys879 Accession # Q86WJ1
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

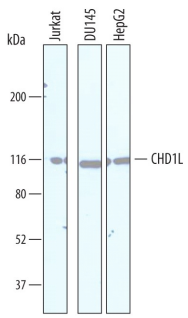
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human CHD1L by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, DU145 human prostate carcinoma cell line, and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human CHD1L Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6959) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CHD1L at approximately 115 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

CHD-1L (Chromohelicase/ATPase DNA-binding protein 1-Like; also ALC-1) is a 98-118 kDa member of the SNF2/RAD54 helicase family of proteins. It is expressed in hepatocytes, possesses ATPase activity, and likely promotes chromatin remodeling at sites of DNA damage. It also is considered an oncogene. CHD-1L upregulates ARHGEF9 trabscription, an action that promotes Cdc42 activity with accompanying filopodia formation and EMT. It also binds apoptosis-mediating Nur77, blocking its migration from nucleus-to-mitochondria. Human CHD-1L is 897 amino acids (aa) in length. It contains a helicase ATP-binding domain (aa 58-223), a C-terminal helicase domain (aa 351-513), a coiled-coil region (aa 38-675) and one Macro domain that binds poly-ADP-ribose and targets DNA damage sites (aa 704-897). There are at least two Ser/Thr phosphorylation sites. There are multiple potential splice variants. One isoform contains an alternative start site at Met114, a second isoform possesses a deletion of aa 43-246, a third isoform shows a three aa substitution for aa 363-897, and a fourth isoform combines a 16 aa insertion after Arg386 with a five aa substitution for aa 425-897. Over aa 759-879, human CHD-1L shares 94% aa identity with mouse CHD-1L.

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