Human CHD1L Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6959R
100 µg

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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