Datasheet for ABIN7602759

anti-CHD2 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	CHD2
Binding Specificity:	C-Term
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHD2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-CHD2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CHD2, which shares 81.8% amino acid (aa) sequence identity with both mouse and rat CHD2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CHD2 Antibody Picoband® (ABIN7602759). Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Monkey. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CHD2
Alternative Name:	CHD2 (CHD2 Products)
Background:	Synonyms: Chromodomain-helicase-DNA-binding protein 2 (EC:3.6.4.12), CHD-2, ATP-dependent helicase CHD2, CHD2 Tissue Specificity: Highly expressed in colon, kidney, prostate, intestine and activated lymphocytes. Expressed at much higher levels in the renal cell cancers than in surrounding normal kidney tissue. Moderately expressed in pancreas, ovary and testis. Expressed in sweat glands and bronchiolar epithelium (PubMed:26911677). Background: Chromodomain-helicase-DNA-binding protein 2 is an enzyme that in humans is encoded by the CHD2 gene. The CHD family of proteins is characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. CHD genes alter gene expression possibly by modification of chromatin structure thus altering access of the transcriptional apparatus to its chromosomal DNA template. CHD2 catalyzes the assembly of chromatin into periodic arrays, and the N-terminal region of CHD2, which contains tandem chromodomains, serves an auto-inhibitory role in both the DNA-binding and ATPase activities of CHD2.
Molecular Weight:	250 kDa
Gene ID:	1106
UniProt:	O14647

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Monkey Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human 1. Carvill, G. L., Heavin, S. B., Yendle, S. C., McMahon, J. M., O'Roak, B. J., Cook, J., Khan, A., Dorschner, M. O., Weaver, M., Calvert, S., Malone, S., Wallace, G., and 22 others. Targeted resequencing in epileptic encephalopathies identifies de novo mutations in CHD2 and SYNGAP1. Nature Genet. 45: 825-830, 2013. 2. Kim, Y., Khoshkhoo, S., Frankowski, J. C., Zhu, B., Abbasi, S., Lee, S., Wu, Y. E., Hunt, R. F. Chd2 is necessary for neural circuit development and long-term memory. Neuron 100: 1180-1193, 2018. 3. Kulkarni, S., Nagarajan, P., Wall, J., Donovan, D. J., Donell, R. L., Ligon, A. H., Venkatachalam, S., Quade, B. J. Disruption of chromodomain helicase DNA binding protein 2 (CHD2) causes scoliosis. Am. J. Med. Genet. 146A: 1117-1127, 2008.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.