Datasheet for ABIN7599602

anti-CHD8 antibody (AA 10-428)

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Overview

Quantity:	100 µg
Target:	CHD8
Binding Specificity:	AA 10-428
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHD8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-CHD8 Antibody Picoband®
Immunogen:	E.coli-derived human CHD8 recombinant protein (Position: D10-A428).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CHD8 Antibody Picoband® (ABIN7599602). Tested in ELISA, IHC, WB, Flow Cytometry applications. This antibody reacts with Human. 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:	CHD8
Alternative Name:	CHD8 (CHD8 Products)
Background:	Synonyms: Metabotropic glutamate receptor 5, mGluR5, GRM5, GPRC1E, MGLUR5 Tissue Specificity: Isoform 1 and isoform 2 are detected in bone marrow cells, spermatogonia and spermatocytes, but not in round spermatids, elongating spermatids and spermatozoa. Isoform 3 is detected in round spermatids, elongating spermatids and spermatozoa, but not in spermatogonia and spermatocytes (at protein level). Isoform 1 is widely expressed and detected in fetal liver and bone marrow. Isoform 3 is detected in bone marrow cells enriched in hematopoietic stem cells. Background: Chromodomain-helicase-DNA-binding protein 8 is an enzyme that in humans is encoded by the CHD8 gene. This gene encodes a member of the chromodomain-helicase-DNA binding protein family, which is characterized by a SNF2-like domain and two chromatin organization modifier domains. The encoded protein also contains brahma and kismet domains, which are common to the subfamily of chromodomain-helicase-DNA binding proteins to which this protein belongs. This gene has been shown to function in several processes that include transcriptional regulation, epigenetic remodeling, promotion of cell proliferation, and regulation of RNA synthesis. Allelic variants of this gene are associated with autism spectrum disorder. Alternative splicing results in multiple transcript variants.
Molecular Weight:	300 kDa
Gene ID:	57680
Pathways:	Chromatin Binding

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. An, Y., Zhang, L., Liu, W., Jiang, Y., Chen, X., Lan, X., Li, G., Hang, Q., Wang, J., Gusella, J. F., Du, Y., Shen, Y. De novo variants in the helicase-C domain of CHD8 are associated with severe phenotypes including autism, language disability and overgrowth. Hum. Genet. 139: 499-512, 2020. 2. Batsukh, T., Pieper, L., Koszucka, A. M., von Velsen, N., Hoyer-Fender, S., Elbracht, M., Bergman, J. E. H., Hoefsloot, L. H., Pauli, S. CHD8 interacts with CHD7, a protein which is mutated in CHARGE syndrome. Hum. Molec. Genet. 19: 2858-2866, 2010. 3. Douzgou, S., Liang,

Application Details

	H. W., Metcalfe, K., Somarathi, S., Tischkowitz, M., Mohamed, W., Kini, U., McKee, S., Yates, L., Bertoli, M., Lynch, S. A., Holder, S., the Deciphering Developmental Disorders Study, Banka, S. The clinical presentation caused by truncating CHD8 variants. Clin. Genet. 96: 72-84, 2019.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 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.
Storage:	4 °C,-20 °C
Storage Comment:	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 freezing and thawing.