

ARG44082 anti-CHD8 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes CHD8
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CHD8
Species	Human
Immunogen	Human CHD8 recombinant protein (Position: D10-A428).
Conjugation	Un-conjugated
Alternate Names	CHD8; Chromodomain Helicase DNA Binding Protein 8; Helicase With SNF2 Domain 1; KIAA1564; HELSNF1; Chromodomain-Helicase-DNA-Binding Protein 8; ATP-Dependent Helicase CHD8; DUPLIN; Axis Duplication Inhibitor; EC 3.6.4.12; EC 3.6.1.7; EC 3.6.1; AUTS18; Duplin; IDDAM; CHD-8

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	2 - 5 µg/ml
	WB	0.25 - 0.5 µg/ml

Application Note The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

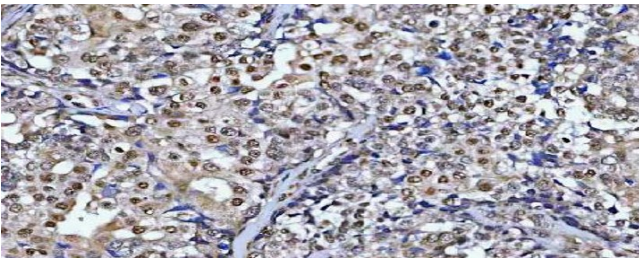
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

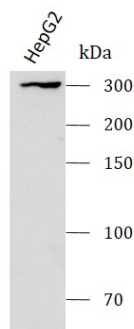
Gene Symbol	CHD8
Gene Full Name	Chromodomain Helicase DNA Binding Protein 8
Background	This gene encodes a member of the chromodomain-helicase-DNA binding protein family, which is characterized by a SNF2-like domain and two chromatin organization modifier domains. The encoded protein also contains brahma 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.
Function	DNA helicase that acts as a chromatin remodeling factor and regulates transcription. Acts as a transcription repressor by remodeling chromatin structure and recruiting histone H1 to target genes. Suppresses p53/TP53-mediated apoptosis by recruiting histone H1 and preventing p53/TP53 transactivation activity. Acts as a negative regulator of Wnt signaling pathway by regulating beta-catenin (CTNNB1) activity. Negatively regulates CTNNB1-targeted gene expression by being recruited specifically to the promoter regions of several CTNNB1 responsive genes. Involved in both enhancer blocking and epigenetic remodeling at chromatin boundary via its interaction with CTCF. Acts as a suppressor of STAT3 activity by suppressing the LIF-induced STAT3 transcriptional activity. Also acts as a transcription activator via its interaction with ZNF143 by participating in efficient U6 RNA polymerase III transcription.
Calculated Mw	290 kDa
PTM	Isopeptide bond, Phosphoprotein, Ubl conjugation
Cellular Localization	Nucleus

Images



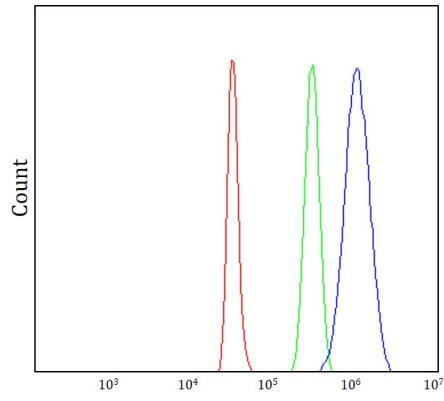
ARG44082 anti-CHD8 antibody IHC-P image

Immunohistochemistry: SH-SY5Y stained with ARG44082 anti-CHD8 antibody at 2 µg/ml dilution.



ARG44082 anti-CHD8 antibody WB image

Western blot: HepG2 stained with ARG44082 anti-CHD8 antibody at 0.5 µg/mL dilution.



ARG44082 anti-CHD8 antibody FACS image

Flow Cytometry: human ovarian cancer tissue stained with ARG44082 anti-CHD8 antibody at $1 \mu\text{g}/10^6$ cells dilution.