

Technical Data Sheet

Purified Mouse Anti-CHD3

Product Information

Material Number:	611847
Size:	150 µg
Concentration:	250 µg/ml
Clone:	44/CHD3
Immunogen:	Human CHD3 aa. 1277-1474
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat, Mouse
Target MW:	221 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The SNF2-related family of proteins all contain conserved helicase motifs, and have been implicated in transcription regulation, DNA repair, and DNA recombination. The DNA-dependent ATPase activity of these proteins is usually activated by single-stranded, double-stranded, or nucleosomal DNA. The chromodomain helicase DNA binding proteins (CHDs) are a subfamily of the SNF2 family, and includes CHD1, CHD2, CHD3, and CHD4. CHD3 and CHD4 contain N-terminal paired PHD zinc finger motifs (PZF), two heterochromatin binding domains (chromodomains; CDs), and a central SNF2-like helicase/ATPase domain. CHD3 mRNA is widely expressed, and CHD3 protein localizes to the nucleus, but not nucleoli. Both CHD3 and CHD4 were first identified as self-antigens recognized by sera from patients with the autoimmune connective-tissue disease Mi-2 dermatomyositis. In addition, both CHD3 and CHD4 are associated with a nucleosome remodelling and deacetylating (NRD) complex, and facilitate deacetylation of oligonucleosomal histones in vitro. Thus, CHD3 and CHD4 are chromodomain containing proteins that may have important roles in ATP-dependent nucleosome remodelling.



Western blot analysis of CHD3 on human endothelial cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-CHD3.



Immunofluorescent staining on human endothelial cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
611450	Human Endothelial Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Tong JK, Hassig CA, Schnitzler GR, Kingston RE, Schreiber SL. Chromatin deacetylation by an ATP-dependent nucleosome remodelling complex. *Nature*. 1998; 395(6705):917-921.(Biology)

Woodage T, Basrai MA, Baxevanis AD, Hieter P, Collins FS. Characterization of the CHD family of proteins. *Proc Natl Acad Sci U S A*. 1997; 94(21):11472-11477. (Biology)