Technical Data Sheet

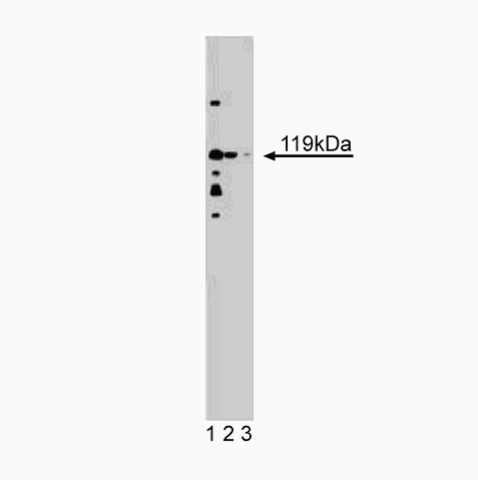
Purified Mouse Anti-DBP2

Product Information

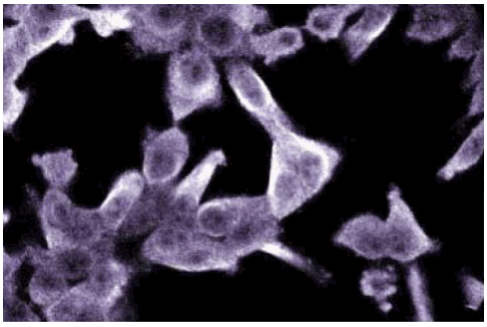
Material Number:	**611316**
Alternate Name:	DEAH Box Protein-2
Size:	50 µg
Concentration:	250 µg/ml
Clone:	24/DBP2
Immunogen:	Human DBP2 aa. 256-366
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat
Target MW:	119 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Splicing, the removal of introns from pre-mRNA, is mediated by spliceosomal complexes and occurs in two distinct catalytic steps. The first step involves cleavage of the 5' exon and the production of a lariat intermediate. In the second step, the 3'-splice site is cleaved and the exons are fused with the concomitant release of the intron lariat. The splicing process involves several conformational rearrangements of the spliceosome that are catalyzed by members of the DEAD/H-box superfamily of RNA helicases. Helicases induce unwinding of double-stranded DNA and RNA in metabolic processes. In S. cerevisiae, helicase proteins that contain the typical superfamily II DEAD/H-box are splicing factors. DBP1 and DBP2 (DEAH-box protein) are putative human helicases and members of the DEAH-box helicase family. DBP2 is expressed in a wide range of human tissues with highest expression in heart, skeletal muscle, and testis. In HeLa cells, DBP2 localizes to the nucleus. In addition, DBP2 is a functional homolog of the *S. pombe* Cdc28/Prp8 protein which is critical for mitosis. Thus, DBP2 is a putative RNA helicase that is thought to be important in pre-mRNA splicing and cell cycle progression.



Western blot analysis of DBP2 on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2.2). *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-DBP2 antibody.*



Immunofluorescence staining of ES-2 cells (Human ovary clear cell carcinoma; ATCC CRL-1978).

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Preparation and Storage

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

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa 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/pharmingen/protocols for technical protocols.
3. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Imamura O, Saiki K, Tani T, Ohshima Y, Sugawara M, Furuichi Y. Cloning and characterization of a human DEAH-box RNA helicase, a functional homolog of fission yeast Cdc28/Prp8. *Nucleic Acids Res.* 1998; 26(9):2063-2068.(Biology)