

# DNA Binding Protein-7 (DBP-7), human recombinant protein

DBP, DNA Binding Protein-7 (DBP-7), human recombinant Catalog # PBV11207r

### **Specification**

#### DNA Binding Protein-7 (DBP-7), human recombinant protein - Product info

Primary Accession Q9P2D1

Calculated MW 9.44 kDa KDa

## DNA Binding Protein-7 (DBP-7), human recombinant protein - Additional Info

Gene ID 55636 Gene Symbol CHD7

**Other Names** 

Chromodomain-helicase-DNA-binding protein 7 (CHD-7) (EC 3.6.4.12) (ATP-dependent helicase

CHD7)

Gene Source Human Source E. coli

Assay&Purity SDS-PAGE; ≥99%

Assay2&Purity2 HPLC;
Recombinant Yes

**Application Notes** 

Reconstitute in  $ddH_2O$  to a concentration of 1.0 mg/ml. Aliquot and store at -20°C for future use.

Repeated freeze/thaw cycles should be avoided.

**Format** 

Lyophilized protein

#### **Storage**

-20°C; Sterile filtered and lyophilized with no additives

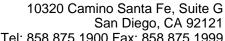
# DNA Binding Protein-7 (DBP-7), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### DNA Binding Protein-7 (DBP-7), human recombinant protein - Images

#### DNA Binding Protein-7 (DBP-7), human recombinant protein - Background







DNA Binding Protein-7 (DBP-7) is a N-terminal His-tagged recombinant protein and a member of the Sso7d family of small, abundant, non-specific DNA-binding proteins from the hyperthermophilic Archea Sulfolobus. The 7-kDa protein from Sulfolobus spp. consists of a five stranded, incomplete β-barrel capped at the opening by a C-terminal α-helix; they bind to the minor groove of a DNA duplex via the triple-stranded β-sheet. The topology of the Sulfolobus 7-kDa proteins was found to be similar to that of chromatin organization modifier (chromo) domains and eukaryotic SH3 domains, which are involved in protein-protein interactions. In vitro studies have shown that DBP-7 promotes the annealing of complementary DNA strands, induces negative supercoiling and chaperones the disassembly and renaturation of protein aggregates in an ATP hydrolysis-dependent manner.

# DNA Binding Protein-7 (DBP-7), human recombinant protein - References

Colin C., et al. Submitted (OCT-2009) to the EMBL/GenBank/DDBJ databases. Nusbaum C., et al. Nature 439:331-335(2006). Nagase T., et al. DNA Res. 7:65-73(2000). Nakajima D., et al. DNA Res. 9:99-106(2002). Ota T., et al. Nat. Genet. 36:40-45(2004).