His_8- Avi-DDB1-biotinylated

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South Bay Bío

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DDB1 - DNA damage-binding protein 1, which is both involved in DNA repair and protein ubiquitination, as part of the UV-DDB complex and DCX (DDB1-CUL4-X-box) complexes, respectively. Core component of the UV-DDB complex (UV-damaged DNA-binding protein complex), a complex that recognizes UV-induced DNA damage and recruit proteins of the nucleotide excision repair pathway (the NER pathway) to initiate DNA repair. The UV-DDB complex preferentially binds to cyclobutane pyrimidine dimers (CPD), 6-4 photoproducts (6-4 PP), apurinic sites and short mismatches. Functions as a component of numerous distinct DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. The functional specificity of the DCX E3 ubiquitin-protein ligase complex is determined by the variable substrate recognition component recruited by DDB1. The protein has an N-terminal 8x-His Tag followed by an Avi-Tag that was endogenous biotinylated during expression in Sf21 Cells.

Quality Control and Performance Data

Fig. 1

Product Information

Quantity: 50 µg Molecular Weight: 130 kDa

Concentration: 17.7 µM, 2.3 mg/mL

Purity: >98% by SDS-PAGE

Biotinylation: >99% by Streptavidin-Bead pull down

Storage Buffer: 25 mM HEPES pH 7.5, 150 mM NaCl, 0.1 mM TCEP **(no detergents or glycerol)**

Storage: -80C, Avoid multiple freeze / thaw

Quality Control and Performance Data

Fig. 2

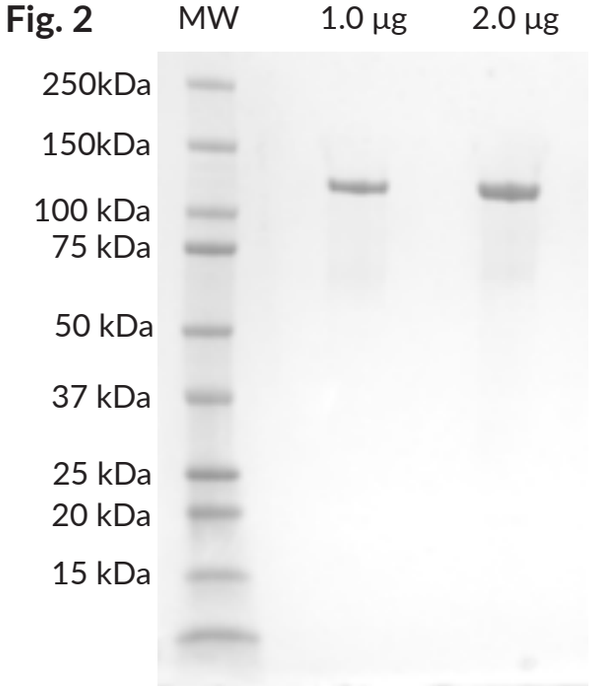

Fig1. 6 µg of His-Avi-DDB1 was incubated for 10 min w/ and w/o 20 µL of packed Neutravidin Beads. Post incubation flow-through (FT) of unbound material was collected and analyzed side by side with starting material (SM). >99% of His-Avi-DDB1 is biotinylated.

Fig2. His-Avi-DDB1 SDS-PAGE. From left to right, increasing amounts of protein loaded onto a 10-20% SDS-PAGE gel, stained with Coomassie brillant blue. Purity is > 97%.

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