

UBE2D3

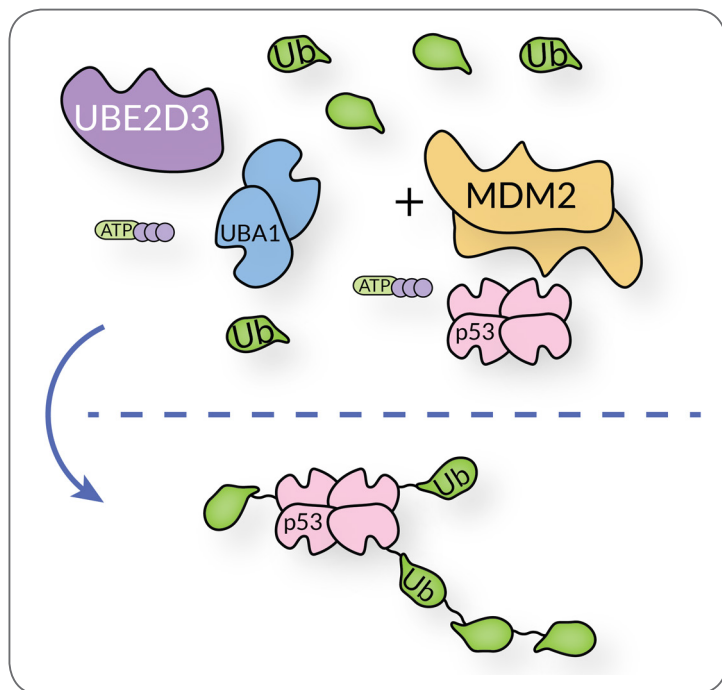
Cat. No. SSB-CE0019
Lot. No. 163060019



South Bay Bio

UBE2D3

UBE2D3 is an E2 ubiquitin conjugating enzyme. An E1 activating enzyme is required to attach ubiquitin to UBE2D3 via an active site cysteine. The mechanism of ubiquitin transfer involves the breaking of a E1-Ub thioester linkage, followed by a reformation of a UBE2D3-Ub thioester. UBE2D3 is capable of associating with numerous known E3 ligases including MDM2, which target proteins such as p53 for proteasomal degradation through polyubiquitination. This recombinant UBE2D3 is expressed in *E.coli*.



UBE2D3. Can pair with E3 ligase MDM2 to ubiquitinate p53.

Product Information

Quantity: 100µg **Molecular Weight:** 17 kDa

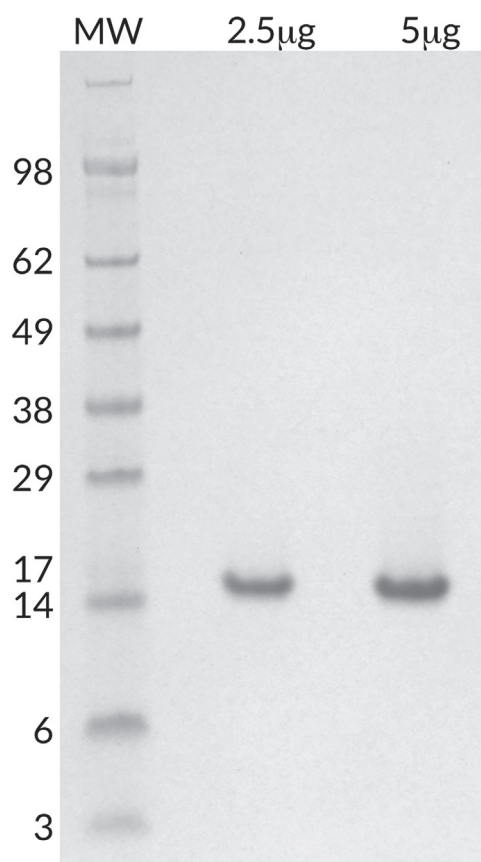
Concentration: 50 µM, 0.085mg/mL

Purity: >95% by SDS-PAGE

Storage Buffer: HEPES pH 7.5, 150mM NaCl, 10% glycerol, 2mM TCEP

Storage: -80C, Avoid multiple freeze / thaw

Quality Control and Performance Data



UBE2D3 SDS-PAGE. From left to right, increasing amounts of UBE2D3 loaded onto a 4-20% SDS-PAGE gel, stained with coomassie brilliant blue. Purity is > 95%.

For Research Use Only, Not For Use In Humans.

www.southbaybio.com

Contact:
info@southbaybio.com

5941 Optical Ct, Suite 229
San Jose, CA 95138 USA

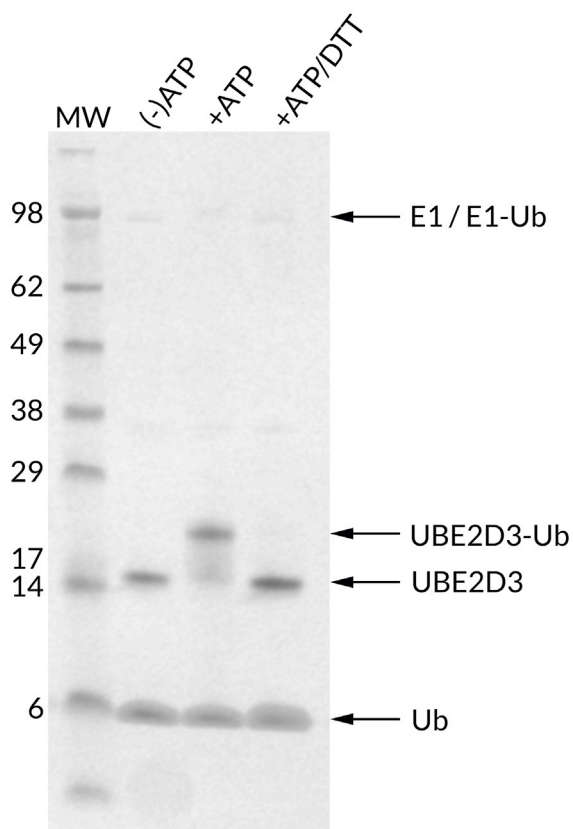
UBE2D3

Cat. No. SSB-CE0019
Lot. No. 163060019



South Bay Bio

Quality Control and Performance Data



Thioester Activity Assay. UBE2D3 forms a thioester with UB in an ATP dependent manner, and the bond can be reduced with addition of excess DTT. The UBE2D3 is active.

References

- 1) Geisler, Sven, et al. "The ubiquitin-conjugating enzymes UBE2N, UBE2L3 and UBE2D2/3 are essential for Parkin-dependent mitophagy." *J Cell Sci* 127.15 (2014): 3280-3293.
- 2) Smit, Judith J., et al. "The E3 ligase HOIP specifies linear ubiquitin chain assembly through its RING-IBR-RING domain and the unique LDD extension." *The EMBO journal* 31.19 (2012): 3833-3844.

For Research Use Only, Not For Use In Humans.

www.southbaybio.com

Contact:
info@southbaybio.com

5941 Optical Ct, Suite 229
San Jose, CA 95138 USA