

UBE2L3

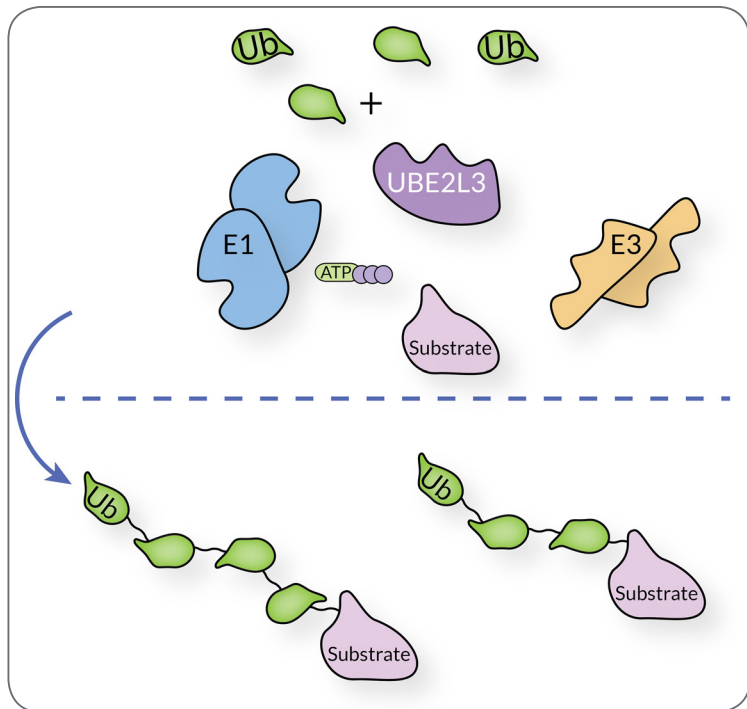
Cat. No. SBB-CE0020
Lot. No. 163060020



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UBE2L3

UBE2L3 is an E2 ubiquitin conjugating enzyme and accepts ubiquitin from an E1 activating enzyme 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 UBE2L3-Ub thioester. UBE2L3 transfers active ubiquitin molecules via a final transthioester reaction to a cysteine residue of HECT class or RBR class E3 ligases. UBE2L3 plays a critical role in the activation of N- κ B signaling by working in conjugation with the RBR E3 ligase, LUBAC (linear ubiquitin assembly complex), to ubiquitinate NEMO of the I κ B complex, which then facilitates the downstream immune response. This recombinant UBE2L3 is expressed in *E.coli* with an N-terminal poly-histidine tag.



Product Information

Quantity: 100 μ g **Molecular Weight:** 18 kDa

Concentration: 50 μ M, 0.9mg/mL

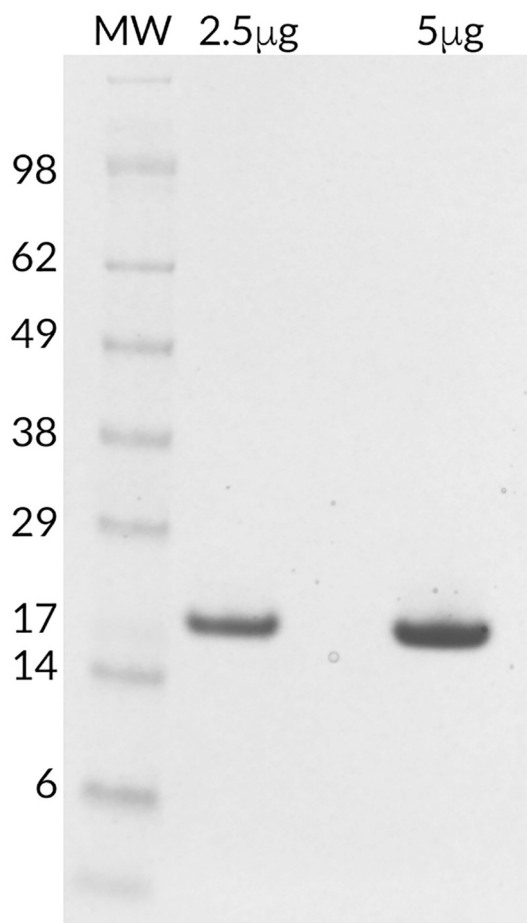
Purity: >95% by SDS-PAGE

Storage Buffer: 50 mM HEPES pH 7.5, 150mM NaCl, 10% glycerol, 2mM TCEP

Storage: -80C, Avoid multiple freeze / thaw

Usage: Working concentrations of this enzyme range from 1 to 5 μ M.

Quality Control and Performance Data



UBE2L3 SDS-PAGE. From left to right, increasing amounts of UBE2L3 loaded onto a 4-20% SDS-PAGE gel, stained with coomassie brilliant blue. Purity is > 95%.

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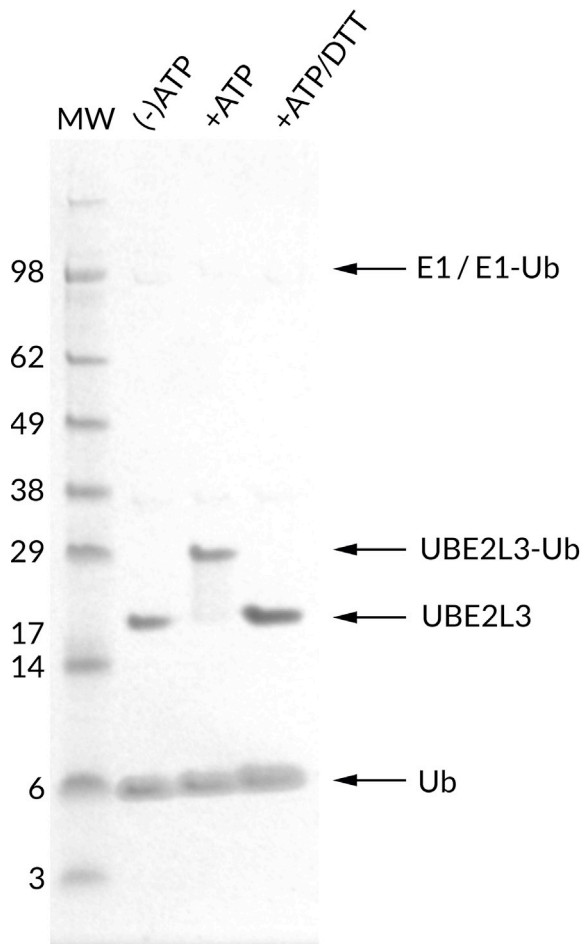
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Thioester Activity Assay. UBE2L3 forms a thioester with Ub in an ATP dependent manner, and the bond can be reduced with addition of excess DTT. The UBE2L3 is active.

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) Ardley, Helen Clare, et al. "Promoter analysis of the human ubiquitin-conjugating enzyme gene family UBE2L1-4, including UBE2L3 which encodes UbcH7." *Biochimica et Biophysica Acta (BBA)-Gene Structure and Expression* 1491.1 (2000): 57-64.

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