
MATERIAL DATA SHEET

Recombinant Human UbcH10/UBE2C**Cat. # E2-654**

Ubiquitinconjugating Enzyme H10 (UbcH10), also known as Ubiquitinconjugating Enzyme E2C (UBE2C), is a 179 amino acid (aa) member of the yeast Ubc4/5 family of UbiquitinConjugating Enzymes (E2) and has a predicted molecular weight of 20 kDa. Human UbcH10/UBE2C shares 96% aa sequence identity with mouse and rat UBE2C. UbcH10/UBE2C is an essential mediator of mitotic destruction events and cell cycle progression. UbcH10/UBE2C recognizes TEK sequences in target proteins such as Cyclins A and B, mediates Lys11linked ubiquitination, and promotes target protein degradation in conjunction with APC/C, a Ubiquitin Ligase (E3). The catalytic activity of UbcH10/UBE2C is regulated by a conserved N-terminal extension, which mediates E2E3 interaction. UbcH10/UBE2C is overexpressed in a variety of human cancers, and alternate splice isoforms may contribute to uncontrolled cell proliferation and tumor progression.

Product Information

Quantity:	50 µg 100 µg
MW:	20 kDa
Source:	<i>E. coli</i> -derived Accession # O00762
Stock:	0.50 mg/ml (25 µM) in 50 mM HEPES pH 7.0, 200 mM NaCl, 10% Glycerol (v/v), 1 mM TCEP
Purity:	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Use: Recombinant Human UbcH10/UBE2C is a member of the Ubiquitinconjugating Enzyme (E2) family that receives Ubiquitin from a UbiquitinActivating Enzyme (E1) and subsequently interacts with a Ubiquitin ligase (E3) to conjugate ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial UbcH10/UBE2C concentration of 0.1-1 μ M.

Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -70 °C as supplied.
- 3 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Dimova, N.V. *et al.* (2012) *Nat. Cell Biol.* **14**: 168
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3. Jiang, L. *et al.* (2008) *Brain Res.* **1201**: 161
4. Lin, Y. *et al.* (2002) *J. Biol. Chem.* **277**: 21913
5. Okamoto, Y. *et al.* (2003) *Cancer Res.* **63**: 4167
6. Summers, M.K. *et al.* (2008) *Mol. Cell* **31**: 544
7. van Ree, J.H. *et al.* (2010) *J. Cell Biol.* **188**: 83
8. Ye, Y. & M. Rape (2009) *Nat. Rev. Mol. Cell Biol.* **10**: 755

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