

MATERIAL DATA SHEET**E6AP/UBE3A, human recombinant****Cat. # E3-230**

E6AP (E6-Associated Protein) is a HECT domain ubiquitin E3 ligase that ubiquitinates and mediates the proteasomal destruction of substrate proteins. HECT domain ligases use an active site cysteine to accept charged ubiquitin from ubiquitin-E2 thioester complexes for subsequent transfer to substrate proteins; in this way HECT class ligases are distinct from most RING class ligases in that the latter facilitate transfer of ubiquitin from charged E2's directly to substrate proteins without an E3-ubiquitin thioester intermediate. The viral HPV-E6 protein (present in cells infected with human papillomavirus) forms a complex with E6AP to generate a ligase activity that polyubiquitinates the tumor suppressors p53 and p73 and targets them to the 26S proteasome for degradation. This protein contains a C-terminal 6-His tag.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 50 mM Hepes pH 8.0, 100 mM NaCl, 1 mM TCEP
MW:	102 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration to support conjugation <i>in vitro</i> is 1-5 µM depending on experimental conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Huang L., <i>et al.</i> (1999) <u>Science</u> 286 : 1321-1326 Martinez-Noel G., <i>et al.</i> (2012) <u>Mol. Cell. Biol.</u> 32 : 3095-3106 Mishra A., <i>et al.</i> (2009) <u>J Biol Chem.</u> 284 : 10537-10545
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