

MATERIAL DATA SHEET**His₆-BAP1, human recombinant****Cat. # E-345**

BAP1 (BRCA1 Associated Protein 1) interacts with the RING-FINGER domain of the E3 ligase BRCA1 (Breast Cancer1, early onset protein) which functions as a tumor suppressor in the BRCA1 growth control pathway. The N-terminal 240 amino acids of the predicted 729-amino acid human protein show homology to ubiquitin C-terminal hydrolases (UCHs) and recombinant BAP1 has deubiquitinating activity *in vitro*. In addition, BAP1 contains an acidic region, a highly charged C-terminal region, and 2 putative nuclear localization signals. It has been demonstrated that BAP1 and BRCA1 associate *in vivo* and have overlapping sub-nuclear localization patterns. BAP1 appears to be a key regulator of the BRCA1 growth control pathway and has been proposed to be a novel candidate tumor suppressor. This recombinant protein is N-terminally tagged. Accession # NP_004647.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) 50 mM HEPES pH 8.0, 100 mM NaCl, 10% glycerol, 0.5 mM EDTA, 1mM DTT. Actual concentration varies with specific Lot #.
MW:	81 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration for use <i>in vitro</i> ranges from 1-5 µM depending on conditions and substrate.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Behrends U., <i>et al</i> (2003) <u>Intl. J.Can.</u> 106 :244-251
	Boulton S. J., <i>et al</i> (2006) <u>Biochem.Soc.Trans.</u> 34 :633-645
	Feunteun J. and Lenoir G.M. (1996) <u>Bioch.Biophy.Acta.</u> 1242 :177-180
	Jensen D.E., <i>et al</i> (1998) <u>Oncogene.</u> 16 :1097-1112
	Jensen D.E., <i>et al</i> (1999) <u>Canc. Letters</u> 143 :S13-S17
	Mallory D.L., <i>et al</i> (2002) <u>EMBO.J</u> 21 :6755-6762
	Nagase T., <i>et al</i> (1990) <u>DNA Res.</u> 3 :321-329
	Nijman S.M.B., <i>et al</i> (2005) <u>Cell.</u> 123 :773-786

For Laboratory Research Use Only, Not For Use in Humans