MATERIAL DATA SHEET

**His$_6$-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 *in vitro* ranges from 1-5 µM depending on conditions and substrate.  
**Storage:** Store at -80°C. Avoid multiple freeze/thaw cycles.

### Literature

**References:**  

*For Laboratory Research Use Only, Not For Use in Humans*