A schematic diagram of the BRCA1 polypeptide, and sites of its interaction with different proteins

**Figure 1.** A schematic diagram of the BRCA1 polypeptide, and sites of its interaction with different proteins. The regions of BRCA1 that interact with other proteins are shown above the polypeptide. The phosphorylation sites (P) show the serine residues that are phosphorylated and the kinases responsible (in purple). Only the proteins that have been shown to interact with BRCA1 in vivo are given here. The RING domain is a zinc-binding domain that interacts with BARD1 (BRCA1-associated RING domain protein) (Ref. 5) and BAP1 (BRCA1-associated protein 1) (Ref. 72); the BRCT domains can activate transcription and interact with the transcription factors shown. The references for the BRCA1-interacting proteins are as follows: CtBP-interacting protein (CtIP) (Refs 57, 58), BRCA2 (Ref. 30), histone deacetylase complexes HDAC 1/2, retinoblastoma-associated proteins RbAp46 and RbAp48 (Ref. 59), Rad50 (Ref. 32), c-Myc (Ref. 60), p53 (Refs 8, 61, 62), retinoblastoma protein (RB) (Ref. 63), p300/CBP (CREB-binding protein) (Ref. 64) and RNA helicase A (RHA) (Ref. 65) (fig001jcb).