

DBC 1 Rabbit mAb
Catalog # AP75341**Specification**

DBC 1 Rabbit mAb - Product Information

Application	WB, IHC-P, IHC-F, IP, ICC
Primary Accession	Q8N163
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	102902

DBC 1 Rabbit mAb - Additional Information**Gene ID** 57805**Other Names**
CCAR2**Dilution**
WB~~1/500-1/1000
IHC-P~~N/A
IHC-F~~N/A
IP~~N/A
ICC~~N/A**Format**
Liquid**DBC 1 Rabbit mAb - Protein Information****Name** CCAR2**Synonyms** DBC1, KIAA1967**Function**

Core component of the DBIRD complex, a multiprotein complex that acts at the interface between core mRNP particles and RNA polymerase II (RNAPII) and integrates transcript elongation with the regulation of alternative splicing: the DBIRD complex affects local transcript elongation rates and alternative splicing of a large set of exons embedded in (A + T)-rich DNA regions (PubMed:22446626). Inhibits SIRT1 deacetylase activity leading to increasing levels of p53/TP53 acetylation and p53-mediated apoptosis (PubMed:18235501, PubMed:18235502, PubMed:23352644). Inhibits SUV39H1 methyltransferase activity (PubMed:19218236). Mediates ligand-dependent transcriptional activation by nuclear hormone receptors (PubMed:<a

[19131338](http://www.uniprot.org/citations/19131338)). Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress (PubMed: [23398316](http://www.uniprot.org/citations/23398316)). Regulates the circadian expression of the core clock components NR1D1 and BMAL1 (PubMed: [23398316](http://www.uniprot.org/citations/23398316)). Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation (PubMed: [23398316](http://www.uniprot.org/citations/23398316)). Represses the ligand-dependent transcriptional activation function of ESR2 (PubMed: [20074560](http://www.uniprot.org/citations/20074560)). Acts as a regulator of PCK1 expression and gluconeogenesis by a mechanism that involves, at least in part, both NR1D1 and SIRT1 (PubMed: [24415752](http://www.uniprot.org/citations/24415752)). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed: [21030595](http://www.uniprot.org/citations/21030595)). Positively regulates the beta-catenin pathway (canonical Wnt signaling pathway) and is required for MCC-mediated repression of the beta-catenin pathway (PubMed: [24824780](http://www.uniprot.org/citations/24824780)). Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3 (PubMed: [25661920](http://www.uniprot.org/citations/25661920)). Plays an important role in tumor suppression through p53/TP53 regulation; stabilizes p53/TP53 by affecting its interaction with ubiquitin ligase MDM2 (PubMed: [25732823](http://www.uniprot.org/citations/25732823)). Represses the transcriptional activator activity of BRCA1 (PubMed: [20160719](http://www.uniprot.org/citations/20160719)). Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (PubMed: [25361978](http://www.uniprot.org/citations/25361978)).

Cellular Location

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, spindle. Note=Recruited to chromatin, post-UV irradiation. Sequestered to the cytoplasm in the presence of MCC. Translocated to the cytoplasm during UV-induced apoptosis.

Tissue Location

Expressed in gastric carcinoma tissue and the expression gradually increases with the progression of the carcinoma (at protein level). Expressed ubiquitously in normal tissues. Expressed in 84 to 100% of neoplastic breast, lung, and colon tissues

DBC 1 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DBC 1 Rabbit mAb - Images



