

DBC 1 (3G4) Mouse mAb

db6013

Package : 50µL 100µL

Product Name : DBC 1 (3G4) Mouse mAb**Cat.No.:** db6013**Synonyms** : DBC1;DBC-1;NET35;p30DBC;p30 DBC;KIAA1967**Application** : WB, ICC/IF, IP**Reactivity** : Human, Mouse, Rat, Monkey**Host species** : Mouse**Background**

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. Inhibits SIRT1 deacetylase activity leading to increasing levels of p53/TP53 acetylation and p53-mediated apoptosis. Inhibits SUV39H1 methyltransferase activity. As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors. Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress. Regulates the circadian expression of the core clock components NR1D1 and ARNTL/BMAL1. Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation (PubMed/18235501, PubMed/18235502, PubMed/19131338, PubMed/19218236, PubMed/22446626, PubMed/23352644, PubMed/23398316). Represses the ligand-dependent transcriptional activation function of ESR2 (PubMed/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). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed/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). Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3 (PubMed/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). Represses the transcriptional activator activity of BRCA1 (PubMed/20160719). Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (PubMed/25361978).

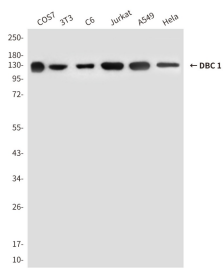
Immunogen

Purified recombinant human DBC1 protein fragments expressed in E.coli

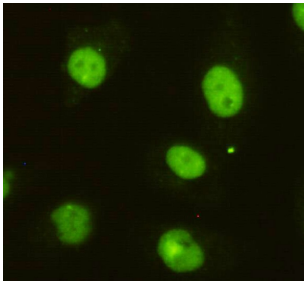
Gene ID

57805

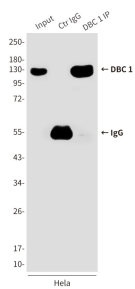
Swiss Prot	Q8N163
Synonyms	DBC1;DBC-1;NET35;p30DBC;p30 DBC;KIAA1967
Reactivity	Human, Mouse, Rat, Monkey
Application	WB, ICC/IF, IP
Recommended dilution	WB: 1:500-1:1000 ICC/IF: 1:50-1:200 IP: 1:20
Calculated MW	103 kDa
Observed MW	130 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	3G4-D11-D7
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Western blot analysis of DBC1 in HeLa, A549, Jurkat, C6, 3T3 and COS7 lysates using DBC1 antibody.



Immunocytochemistry analysis of DBC 1 in HeLa cells using DBC1 antibody.



Immunoprecipitation analysis of DBC 1 (3G4) in HeLa lysates using DBC1 antibody.