



Mouse anti-Human CDC45 polyclonal antibody (DPAB-DC3401)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The protein encoded by this gene was identified by its strong similarity with *Saccharomyces cerevisiae* Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in *Xenopus* suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants.

Immunogen

CDC45L (AAH06232, 1 a.a. ~ 566 a.a) full-length recombinant protein with GST tag. The sequence is
 MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQELET
 AFLEHKEQFHYFILINCGANVDLLDILQPDEDTIFFVCDTHRPNVVNVYNDTQIKLLIK
 QDDDLEVPAYEDIFRDEEEDEEHSGNDSDGSEPSEKRTRLEEEIVEQTMRQQREWEAR
 RRDILFDYEQYEQYHGTSAMVMFELAWMLSNDMLWWAIVGLTDQWVQDKITQMKYVT
 DVGVLRQHVSRRHNRNEDEENTLSVDCTRISFEYDLRLVLYQHWSLHDSLNTSYTAARF
 KLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISLKENLREMIEESANKFGMKDMRVQT
 FSIHFGFKHKFLASDVVFATMSLMESPEKDGSQTDHFIQALD

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer

50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CDC45 cell division cycle 45 [Homo sapiens (human)]
Official Symbol	CDC45
Synonyms	CDC45; cell division cycle 45; CDC45L; CDC45L2; PORC-PI-1; cell division control protein 45 homolog; human CDC45; CDC45-related protein; cell division cycle 45-like 2; cell division cycle 45 homolog; CDC45 cell division cycle 45 homolog;
Entrez Gene ID	8318
Protein Refseq	NP_001171481
UniProt ID	O75419
Chromosome Location	22q11.21
Pathway	Activation of ATR in response to replication stress; Cell Cycle; Cell Cycle, Mitotic; Cell cycle
Function	protein binding;
