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Anti-Chk2 Rabbit mAb [02E16]

Catalog No.: A52075

Basic Information

Catalog No. (Cat.No.)	A52075
Host species	Rabbit
Reactivity	Human,Mouse
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Chk2,CHK2,CDS1-like,HUS1-related protein kinase,CHK2A

Product Information

Target	Chk2
Molecular Weight(Calculated)	61 kDa
Molecular Weight(Observed)	61 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	02E16
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IHC	1:1000-1:4000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Checkpoint kinase 2
Gene Name	*CHEK2*
Domain	NA
Background	Chk2 (Checkpoint kinase 2) is a serine-threonine kinase mediating DNA-damage response and cell-cycle-checkpoint activation. Upon DNA double-strand break, ATM kinase phosphorylates and activates Chk2. Activated Chk2 phosphorylates downstream substrates such as Cdc25C and p53 to arrest cell-cycle progression and provide time window for DNA repair. Chk2 triggers G1/S and G2/M checkpoint responses, leading to cell-cycle arrest, DNA repair or apoptosis. Chk2 acts as a tumor suppressor; loss-of-function mutations impair DNA-damage response and elevate tumor risk.