Chk2 Conjugated Antibody

Catalog No: #C48967

Package Size: #C48967-AF350 100ul #C48967-AF405 100ul #C48967-AF488 100ul #C48967-AF555 100ul #C48967-AF594 100ul #C48967-AF647 100ul #C48967-AF680 100ul #C48967-AF750 100ul #C48967-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	Chk2 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	CDS 1 antibody Cds1 antibody Cds1 homolog antibody Checkpoint kinase 2 antibody Checkpoint like protein CHK2 antibody CHEK 2 antibody Chek2 antibody Chk 2 antibody CHK2 checkpoint homolog (S. pombe) antibody CHK2 checkpoint homolog antibody CHK2_HUMAN antibody hCds1 antibody HuCds 1 antibody LFS 2 antibody LFS2 antibody PP1425 antibody RAD 53 antibody RAD53 antibody Rad53 homolog antibody Serine/threonine protein kinase Chk2 antibody Serine/threonine-protein kinase Chk2 antibody
Accession No.	Swiss-Prot#:O96017
Uniprot	O96017
GeneID	11200;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	62 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by proteolysis of cyclins. Chk1 and Chk2 are involved in these processes as regulators of Cdks. Chk1 and Chk2 both function as essential components in the G2 DNA damage checkpoint by phosphorylating Cdc25C in response to DNA damage. Phosphorylation inhibits Cdc25C activity, thereby blocking mitosis. Cdc25A, Cdc25B and Cdc25C protein tyrosine phosphatases function as mitotic activators by dephosphorylating Cdc2 p34 on regulatory tyrosine residues. It has also been shown that Chk1 can phosphorylate Wee1 in vitro, providing evidence that the hyperphosphorylated form of Wee1, seen in cells delayed by Chk1 overexpression, is due to phosphorylation by Chk1.

Note: This product is for in vitro research use only