

Phospho-CDK Substrate Motif [(K/H)pSP] MultiMab® Rabbit mAb mix



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W, IP, E-P	All	Endogenous	Rabbit IgG

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Peptide ELISA (DELFI A)

Dilution

1:1000
1:50
1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Phospho-CDK Substrate Motif [(K/H)pSP] MultiMab® Rabbit mAb mix recognizes phospho-serine in a (K/H)(S*)P motif. The antibody does not cross-react with phospho-threonine or phospho-tyrosine containing peptides/proteins.

Source / Purification

MultiMab® rabbit monoclonal mix antibodies are prepared by combining individual rabbit monoclonal clones in optimized ratios for the approved applications. Each antibody in the mix is carefully selected based on motif recognition and performance in multiple assays. Each mix is engineered to yield the broadest possible coverage of the modification being studied while ensuring a high degree of specificity for the modification or motif.

Background

Cyclin-dependent kinases (CDKs) are a family of Ser/Thr kinases that regulate cell-cycle transitions through their association and subsequent phosphorylation of targets in a strictly ordered fashion (1). The substrates for CDKs are proline-directed. The consensus amino acid sequence for CDK substrate is (K/R)(S*)PX(K/R), where X denotes any one of the 20 amino acids (2-4) and S* is the phosphorylation site. Phospho-CDK Substrate Motif [(K/H)pSP] MultiMab™ Rabbit mAb mix recognizes phosphorylated CDK substrates at their consensus motif, providing a powerful tool for CDK target discovery and characterization, as well as HTS drug screening for potential kinase regulators.

Background References

1. Morgan, D.O. (1997) *Annu Rev Cell Dev Biol* 13, 261-91.
2. Songyang, Z. et al. (1996) *Mol Cell Biol* 16, 6486-93.
3. Songyang, Z. (1999) *Prog Biophys Mol Biol* 71, 359-72.
4. Holmes, J.K. and Solomon, M.J. (1996) *J Biol Chem* 271, 25240-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **E-P:** Peptide ELISA (DELFI A)

Cross-Reactivity Key

All: All Species Expected

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