

#8738 Store at -20°C

Phospho-CK2 Substrate Motif [(pS/pT)DXE] MultiMab™ Rabbit mAb mix



Orders ■ 877-616-CELL (2355)
 orders@cellsignal.com
Support ■ 877-678-TECH (8324)
 info@cellsignal.com
Web ■ www.cellsignal.com

rev. 03/07/16

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W Endogenous	Species Cross-Reactivity* All	Isotype Rabbit IgG**
---------------------------------	----------------------------------	-------------------------

Background: Casein Kinase II (CK2) is a highly conserved, ubiquitously expressed, and constitutively active tetrameric Ser/Thr protein kinase with hundreds of substrates participating in the regulation of a variety of cellular processes including cell cycle progression, apoptosis, transcription, inflammation, and the DNA damage response. Research studies have implicated CK2 in roles related to viral infection, cancer, and other diseases (1-5). CK2 substrates contain multiple acidic residues (Asp and Glu) located downstream of the phosphorylated Ser or Thr residue. The consensus sequence for CK2 substrates is pS/pTD/EXD/E with the most crucial residue at the +3 position followed by the residue at the +1 position (6).

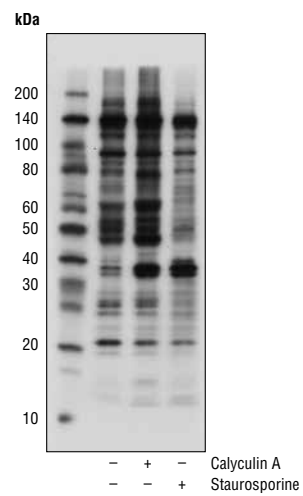
Specificity/Sensitivity: Phospho-CK2 Substrate Motif [(pS/pT)DXE] MultiMab™ Rabbit mAb mix recognizes endogenous proteins containing a pS/pTDXE motif, which is a CK2 phosphorylation consensus sequence. This antibody is a useful tool to study CK2 substrates.

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.

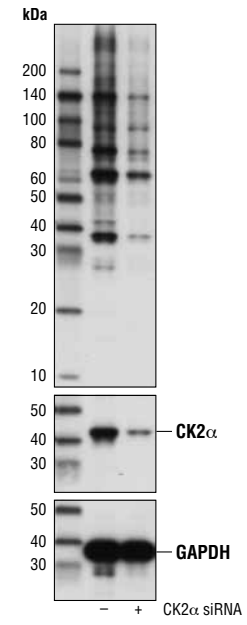
Background References:

- (1) Pinna, L.A. and Allende, J.E. (2009) *Cell Mol Life Sci* 66, 1795-9.
- (2) St-Denis, N.A. and Litchfield, D.W. (2009) *Cell Mol Life Sci* 66, 1817-29.
- (3) Trembley, J.H. et al. (2009) *Cell Mol Life Sci* 66, 1858-67.
- (4) Perez, D.I. et al. (2011) *Med Res Rev* 31, 924-54.
- (5) Dominguez, I. et al. (2009) *Cell Mol Life Sci* 66, 1850-7.
- (6) Meggio, F. and Pinna, L.A. (2003) *FASEB J* 17, 349-68.

License/Use Restrictions: Use of CST Motif Antibodies within certain methods (e.g., U.S. Patent No. s 7,198,896 & 7,300,753) may require a license from CST. For information regarding academic licensing terms please have your technology transfer office contact CST Legal Department at CST_ip@cellsignal.com. For information regarding commercial licensing terms please contact CST Pharma Services Department at ptmscan@cellsignal.com.



Western blot analysis of extracts from HeLa cells, untreated or treated with Calyculin A #9902 (10 nM, 30 min) or Staurosporine #9953 (1 μM, 3 hr), using Phospho-CK2 Substrate Motif [(pS/pT)DXE] MultiMab™ Rabbit mAb mix.



Western blot analysis of extracts from HeLa cells, transfected with SignalSilence® Control siRNA (Unconjugated) #6568 (-) or SignalSilence® CK2α siRNA I #6389 (+), using Phospho-CK2 Substrate Motif [(pS/pT)DXE] MultiMab™ Rabbit mAb mix (upper), CK2α Antibody #2656 (middle), or GAPDH (D16H11) XP® Rabbit mAb #5174 (lower).

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

Tween is a registered trademark of ICI Americas, Inc.

© 2013 Cell Signaling Technology, Inc. XP, MultiMab, SignalSilence and Cell Signaling Technology are trademarks of Cell Signaling Technology, Inc.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.