

Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody

100 µl
(10 western blots)

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rev. 11/02/10

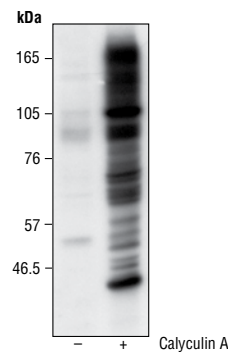
This product is for *in vitro* research use only and is not intended for use in humans or animals.
This product is not intended for use as a therapeutic or in diagnostic procedures.

Applications	Species Cross-Reactivity*	Source	Motif
W, IP, E-P Endogenous	All	Rabbit	RX(Y/F)XS*

Background: The 14-3-3 proteins are a highly conserved family of proteins involved in the regulation of cell survival, apoptosis, proliferation and checkpoint control (1-5). Binding of 14-3-3 is mediated through phospho-serine-containing proteins (6). Two different phospho-serine containing motifs are found using a degenerate phospho-serine-oriented peptide library technique, RSXS*XP and RXY/FXS*XP (6). Motif 2 (RXY/FXS*XP) is found in critical regulatory proteins including cdc25A, cdc25B, PKC γ , IRS-1 and BCR (6). Although Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody binds 14-3-3 binding motif 2 with no requirement for proline in the +2 position, it provides a powerful tool for the discovery and characterization of potential 14-3-3 binding motif 2-containing proteins or other proteins with the RXY/FXS* motif.

Specificity/Sensitivity: Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody detects endogenous levels of proteins containing the Arg-X-Tyr/Phe-X-pSer motif. This antibody does not cross-react with nonphosphorylated serine or phospho-threonine proteins with the same motif or other phospho-serine/threonine-containing proteins and peptides without this motif. (U.S. Patent No's.: 6,441,140; 6,982,318; 7,259,022; 7,344,714; U.S.S.N. 11,484,485; and all foreign equivalents.)

Source/Purification: Polyclonal antibodies are produced by immunizing animals with Arg-X-Tyr/Phe-X-pSer-containing peptides. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from A431 cells, untreated or calyculin A treated, using Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody.

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

*Species cross-reactivity is determined by western blot.

Recommended Antibody Dilutions:

Western Blotting 1:1000
Immunoprecipitation 1:20
ELISA-Peptide 1:1000

Background References:

- (1) Aitken, A. (1995) *Trends Biochem. Sci.* 20, 95-97.
- (2) Zha, J. et al. (1996) *Cell* 87, 619-628.
- (3) Piwnicka-Worms, H. (1999) *Nature* 401, 535-537.
- (4) Tzivion, G. et al. (1998) *Nature* 394, 88-92.
- (5) Xing, H. (2000) *EMBO J.* 19, 349-358.
- (6) Yaffe, M.B. et al. (1997) *Cell* 91, 961-971.

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@cellsignaling.com. For information regarding commercial licensing terms please contact CST Pharma Services Department at ptmscan@cellsignaling.com.

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.

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.