# Protein A (HRP Conjugate)



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> > Entrez-Gene ID # UniProt ID #

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

**Description:** This Cell Signaling Technology product is useful for the detection of IgG. Conjugation of horseradish peroxidase (HRP) to protein A is obtained by cross-linking the amino groups on protein A with the carbohydrate groups on HRP.

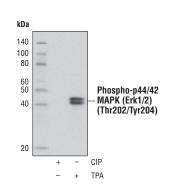
**Background:** Protein A exhibits high affinity for subclasses of IgG from many species (including human, rabbit, mouse, rat, and sheep) and therefore can be used for detection and/or purification of antibodies. Due to its vast array of applications, protein A is the method of choice for many preparative and analytical immunological assays (1).

**Source/Purification:** Protein A (HRP Conjugate) is purified by gel filtration. The conjugate product is free from unconjugated protein A and HRP.

**Notes on Use:** This product should be used in place of the secondary in the western blotting protocol.

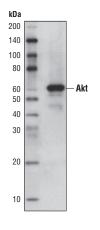
## **Background References:**

(1) Goding, J.W. (1978) J Immunol Methods 20, 241-53.



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Western blot analysis of extracts from MCF7 cells, treated with CIP or TPA (12-0-Tetradecanoylphorbol-13-Acetate) #4174 (200 nM, 10 min), using Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb #4370. Protein A (HRP Conjugate) was used for detection.



Western blot analysis of extracts from NIH/3T3 cells using Akt (pan) (C67E7) Rabbit mAb #4691. Protein A (HRP Conjugate) was used for detection. **Storage:** Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at  $-20^{\circ}$ C.

**Recommended Antibody Dilutions:** 

Western blotting 1:1000

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: 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 AII—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.