

#3208 Store at -20°C

AP-2 α Antibody

100 μl
 (10 western blots)

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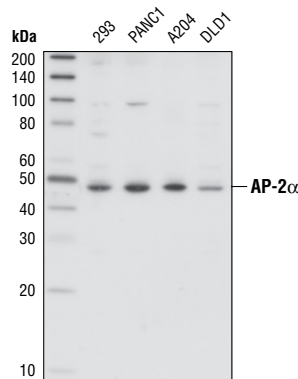
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP, IHC-P Endogenous	H, M, R, Mk	48 kDa	Rabbit**

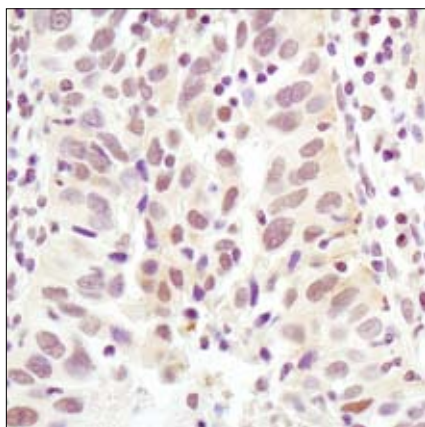
Background: The sequence-specific transcription factor activator protein 2 α (AP-2 α) is required for normal growth and morphogenesis during mammalian development (1,2). Decreased or loss of AP-2 α expression has been observed in many different types of human cancers including breast cancer (3,4), ovarian cancer (5), melanoma (6) and prostate cancer (7). These findings suggest that AP-2 α expression plays a crucial role in tumorigenicity. Studies have also shown that p53 overexpression in human breast carcinoma cells induces the level of AP-2 α expression. Furthermore, p53 binds to the cis-element in the AP-2 α promoter, suggesting that AP-2 α is a target of p53. AP-2 α may mediate the effect of p53 to inhibit cell proliferation (8).

Specificity/Sensitivity: AP-2 α Antibody detects endogenous levels of total AP-2 α protein.

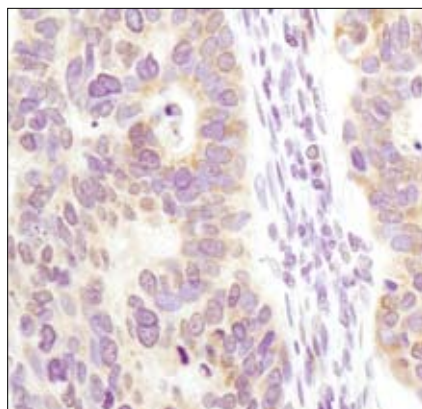
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence of human AP-2 α . Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from various cell lines, using AP-2 α Antibody.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma, using AP-2 α Antibody.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using AP-2 α Antibody.

Entrez-Gene ID #7020
Swiss-Prot Acc. #P05549

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

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50
Immunohistochemistry (Paraffin)	1:300
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112

For application specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended companion products.

Background References:

- (1) Mitchell, P.J. et al. (1987) *Cell* 50, 847–861.
- (2) Williams, T. and Tjian, R. (1991) *Genes Dev.* 5, 670–682.
- (3) Douglas, D.B. et al. (2004) *Cancer Res.* 64, 1611–1620.
- (4) Gee, J.M. et al. (1999) *J. Pathol.* 189, 514–520.
- (5) Anttila, M.A. et al. (2000) *Br. J. Cancer.* 82, 1974–1983.
- (6) Jean, D. et al. (1998) *J. Biol. Chem.* 273, 16501–16508.
- (7) Ruiz, M. et al. (2004) *Cancer Res.* 64, 631–638.
- (8) Li, H. et al. (2006) *Oncogene*, EPub ahead of Print

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.