

#3208 Store at -20C

AP-2α Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	48	Rabbit	#P05549	7020

Product Usage Information	Application Western Blotting	Dilution 1:1000
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.	
Specificity / Sensitivity	AP-2α Antibody detects endogenous levels of total AP-2α protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence of human AP-2α. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The sequence-specific transcription factor activator protein 2α (AP-2α) is required for normal growth and morphogenesis during mammalian development (1,2). Decreased or loss of AP-2α 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-2α expression plays a crucial role in tumorigenicity. Studies have also shown that p53 overexpression in human breast carcinoma cells induces the level of AP-2α expression. Furthermore, p53 binds to the <i>cis</i> -element in the AP-2α promoter, suggesting that AP-2α is a target of p53. AP-2α may mediate the effect of p53 to inhibit cell proliferation (8).	
Background References	<ol style="list-style-type: none"> 1. Mitchell, P.J. et al. (1987) <i>Cell</i> 50, 847-61. 2. Williams, T. and Tjian, R. (1991) <i>Genes Dev</i> 5, 670-82. 3. Douglas, D.B. et al. (2004) <i>Cancer Res</i> 64, 1611-20. 4. Gee, J.M. et al. (1999) <i>J Pathol</i> 189, 514-20. 5. Anttila, M.A. et al. (2000) <i>Br J Cancer</i> 82, 1974-83. 6. Jean, D. et al. (1998) <i>J Biol Chem</i> 273, 16501-8. 7. Ruiz, M. et al. (2004) <i>Cancer Res</i> 64, 631-8. 8. Li, H. et al. (2006) <i>Oncogene</i> 25, 5405-15. 	

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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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