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#3208

AP-2α Antibody

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

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

- Mitchell, P.J. et al. (1987) *Cell* 50, 847-61.
- Williams, T. and Tjian, R. (1991) *Genes Dev* 5, 670-82.
- Douglas, D.B. et al. (2004) *Cancer Res* 64, 1611-20.
- Gee, J.M. et al. (1999) *J Pathol* 189, 514-20.
- Anttila, M.A. et al. (2000) *Br J Cancer* 82, 1974-83.
- Jean, D. et al. (1998) *J Biol Chem* 273, 16501-8.
- Ruiz, M. et al. (2004) *Cancer Res* 64, 631-8.
- Li, H. et al. (2006) *Oncogene* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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