

#3215 Store at -20C

AP-2 α (C83E10) Rabbit mAb



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

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

Product Usage Information

Application

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

AP-2 α (C83E10) Rabbit mAb detects endogenous levels of total AP-2 α protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to human AP-2 α .

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).

Background References

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

WB: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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