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AP-2 γ Antibody

Store at -20C
#2320

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

Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 49	Source/Isotype: Rabbit	UniProt ID: #Q92754	Entrez-Gene Id: 7022
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Product Usage Information

Application

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:400 - 1:1600

Storage

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

Specificity/Sensitivity

AP-2 γ Antibody detects endogenous levels of total AP-2 γ protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human AP-2 γ . Antibodies are purified by protein A and peptide affinity chromatography.

Background

Activator protein 2 γ (AP-2 γ) is a member of the developmentally-regulated transcription factor activator protein 2 family (1). Overexpression of p53 in human breast cancer cells increases AP-2 γ mRNA and protein (2). In addition, p53 binds to the AP-2 γ promoter, suggesting that AP-2 γ is a target of p53. AP-2 γ therefore may contribute to p53-mediated growth inhibition (2). Studies also found that AP-2 γ increases p21 mRNA and protein levels and induces cell-cycle arrest in G1 phase (3). Overexpression of AP-2 γ inhibits the growth of human breast cancer cells (3). Taken together, these findings suggest that AP-2 γ functions as a tumor suppressor (3).

Background References

- Hasleton, M.D. et al. (2003) *Biochem. J.* 373, 925-932.
- Li, H. et al. (2006) *Oncogene* 25, 5405-5415.
- Li, H. et al. (2006) *Neoplasia* 8, 568-577.

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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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