

#2509 Store at -20C

AP-2 β Antibody



Cell Signaling
TECHNOLOGY®

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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, IP, IF-IC	H M R	Endogenous	49	Rabbit	#Q92481	7021

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:100

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

Source / Purification

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

Background

The sequence-specific transcription factor activator protein 2 β (AP-2 β) is required for normal kidney development (1). AP-2 β knockout mice die 1-2 days after birth due to polycystic kidney disease (1). Massive apoptosis occurred during kidney development at the end of embryogenesis in these mice (1). Overexpressed AP-2 β has been found to suppress c-myc-induced apoptosis, indicating a role of this transcription factor in cell survival (1). In addition, overexpression of AP-2 β is shown to be related to impaired insulin signaling in adipocytes, and is therefore proposed to be a candidate gene that may relate to obesity (2).

Background References

1. Moser, M. et al. (1997) *Genes Dev.* 11, 1938-1148.
2. Tao, Y. et al. (2006) *Endocrinology* 147, 1685-1696.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **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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