



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

# AP-2 $\beta$ Antibody

Store at -20C  
#2509

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

<b>Applications:</b> W, IP, IF-IC	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 49	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q92481	<b>Entrez-Gene Id:</b> 7021
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## 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  $\mu$ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

AP-2 $\beta$  Antibody detects endogenous levels of total AP-2 $\beta$  protein.

## Source / Purification

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

## Background

The sequence-specific transcription factor activator protein 2 $\beta$  (AP-2 $\beta$ ) is required for normal kidney development (1). AP-2 $\beta$  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 $\beta$  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 $\beta$  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

- Moser, M. et al. (1997) *Genes Dev.* 11, 1938-1148.
- 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

**W:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

## Cross-Reactivity Key

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

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