

## CP27B Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP15083
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	100ul, 50ul, 20ul
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
<b>Synonyms</b>	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial ;EC 1.14.13.13;25-OHD-1 alpha-hydroxylase;25-hydroxyvitamin D;3 1-alpha-hydroxylase;VD3 1A hydroxylase;Calcidiol 1-monoxygenase;Cytoc

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The protein encoded by this gene localizes to the inner mitochondrial membrane where it hydroxylates 25-hydroxyvitamin D<sub>3</sub> at the 1 $\alpha$  position. This reaction synthesizes 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>, the active form of vitamin D<sub>3</sub>, which binds to the vitamin D receptor and regulates calcium metabolism. Thus this enzyme regulates the level of biologically active vitamin D and plays an important role in calcium homeostasis. Mutations in this gene can result in vitamin D-dependent rickets type I.

### Recommended Dilution

WB: 1: 500 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

### Images

No images.

### Storage

-20°C for 1 year