

## SOD2 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP14365
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	Synthesized peptide derived from the Internal region of human SOD-2.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, IF
<b>Concentration</b>	N/A
<b>Full name</b>	Superoxide dismutase [Mn], mitochondrial
<b>Synonyms</b>	Superoxide dismutase [Mn], mitochondrial; SOD2; Superoxide dismutase [Mn; , mitochondrial

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

### Background

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.

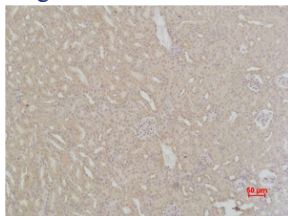
### Recommended Dilution

WB: 1: 500 - 1: 2000

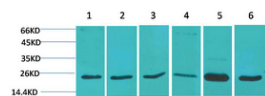
IHC-p: 1: 50 - 1: 300

Not yet tested in other applications.

### Images



Immunohistochemical analysis of paraffin-embedded Mouse Kidney Tissue using SOD2 Polyclonal Antibody.



Western blot analysis of 1) 293T, 2) HeLa, 3) C2C12, 4) 3T3, 5) Rat Liver Tissue, 6) Rat Brain Tissue using SOD2 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

### Storage

-20°C for 1 year