[KO Validated] SOD2 Rabbit Polyclonal Antibody



CAB1340

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

25KDa/22KDa

Calculated MW:

18kDa/19kDa/20kDa/24kDa

Applications:

WB IHC

Reactivity:

Human, Mouse, Rat

Protein 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.

Immunogen information

Gene ID:

6648

Uniprot

P04179

Synonyms:

IPO-B; IPOB; MNSOD; MVCD6; Mn-SOD; SOD2

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50

- 1:200

Source: Rabbit

Immunogen:

Recombinant fusion protein containing a sequence corresponding

to amino acids 25-222 of human SOD2 (NP_000627.2).

Storage

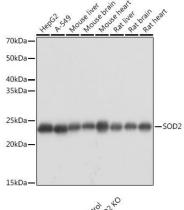
Isotype: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02%

IgG sodium azide, 50% glycerol, pH7.3.

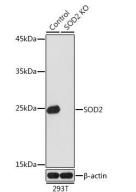
Purification:

Affinity purification

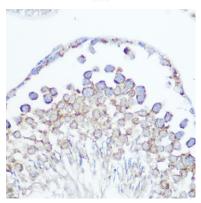
Product Images



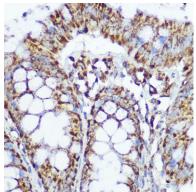
Western blot analysis of extracts of various cell lines, using SOD2 antibody (CAB1340) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.



Western blot analysis of extracts from normal (control) and SOD2 Rabbit pAb knockout (KO) 293T cells, using SOD2 Rabbit pAb antibody (CAB1340) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 3s.



Immunohistochemistry of paraffin-embedded rat testis using SOD2 Rabbit pAb (CAB1340) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human colon using SOD2 Rabbit pAb (CAB1340) at dilution of 1:100 (40x lens).