

产品名称: SOD-2 Rabbit Polyclonal Antibody
产品货号: APRab18099



产品概述 (Summary)

产品名称 (Production Name)	SOD-2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SOD2
别名 (Alternative Names)	SOD2; Superoxide dismutase [Mn], mitochondrial
基因 ID (Gene ID)	6648.0
蛋白 ID (SwissProt ID)	P04179.The antiserum was produced against synthesized peptide derived from the Internal region of human SOD2. AA range:91-140

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	24kDa

研究背景 (Background)

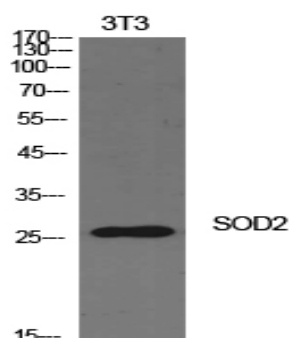
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This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation 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. [provided by RefSeq, Apr 2016], catalytic activity: $2 \text{ superoxide} + 2 \text{ H}^{+} = \text{O}_2 + \text{H}_2\text{O}_2$, cofactor: Binds 1 manganese ion per subunit, disease: Genetic variation in SOD2 is associated with susceptibility to diabetic nephropathy [MIM:612634]; also called susceptibility to microvascular complications of diabetes type 6 (MVCD6). Diabetic nephropathy is a kidney disease and resultant kidney function impairment due to the long standing effects of diabetes on the microvasculature (glomerulus) of the kidney. Features include increased urine protein and declining kidney function, function: Destroys radicals which are normally produced within the cells and which are toxic to biological systems, online information: Superoxide dismutase entry, online information: The Singapore human mutation and polymorphism database, PTM: Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity, similarity: Belongs to the iron/manganese superoxide dismutase family, subunit: Homotetramer,

研究领域 (Research Area)

Huntington's disease;

图片 (Image Data)



Western Blot analysis of NIH-3T3 cells using SOD-2 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

注意事项 (Note)

For research use only .