SOD2 Conjugated Antibody

Catalog No: #C49265

SAB Signalway Antibody

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Package Size: #C49265-AF350 100ul #C49265-AF405 100ul #C49265-AF488 100ul

#C49265-AF555 100ul #C49265-AF594 100ul #C49265-AF647 100ul

#C49265-AF680 100ul #C49265-AF750 100ul #C49265-Biotin 100ul

Description

Product Name	SOD2 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Indophenoloxidase B antibody IPO B antibody IPOB antibody Manganese containing superoxide dismutase
	antibody Manganese SOD antibody Manganese superoxide dismutase antibody Mangano superoxide
	dismutase antibody Mn SOD antibody Mn superoxide dismutase antibody MNSOD antibody MVCD6 antibody
	SOD 2 antibody SOD2 antibody SODM_HUMAN antibody Superoxide dismutase [Mn] mitochondrial antibody
	Superoxide dismutase [Mn], mitochondrial antibody Superoxide dismutase 2 mitochondrial antibody
Accession No.	Swiss-Prot#:P04179
Uniprot	P04179
GeneID	6648;
Excitation Emission	AF350: 346nm/442nm
	AF405: 401nm/421nm
	AF488: 493nm/519nm
	AF555: 555nm/565nm
	AF594: 591nm/614nm
	AF647: 651nm/667nm
	AF680: 679nm/702nm
	AF750: 749nm/775nm
Calculated MW	21 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250
AF405 conjugated: most applications: 1: 50 - 1: 250
AF488 conjugated: most applications: 1: 50 - 1: 250
AF555 conjugated: most applications: 1: 50 - 1: 250
AF594 conjugated: most applications: 1: 50 - 1: 250
AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250
AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

The superoxide dismutase family is composed of three metalloenzymes (SOD-1, SOD-2 and SOD-3) that catalyze the oxido-reduction of reactive oxygen species (ROS) such as superoxide anion. The SOD-2 precursor is a 222 amino acid protein that is encoded by nuclear chromatin, synthesized in the cytosol and imported posttranslationally into the mitochondrial matrix. Unlike SOD-1, which is a homodimeric cytosolic Cu-Zn enzyme, SOD-2 is a homotetrameric manganese enzyme (also known as MnSOD) that functions in the mitochondrion. ROS are implicated in a wide range of degenerative processes, including Alzheimero Ω ½o Ω ½s disease, Parkinsono Ω ½o Ω ½s disease and ischemic heart disease. Homozygous mutant mice, which lack SOD-2, exhibit dilated cardiomyopathy, accumulation of lipid in liver and skeletal muscle, metabolic acidosis, oxidative DNA damage and respiratory chain deficiencies in heart and skeletal muscle. Polymorphisms in the SOD-2 gene have also been implicated in nonfamilial, idiopathic, dilated cardiomyopathy in humans.

Note: This product is for in vitro research use only