Superoxide Dismutase 1 Conjugated Antibody

Catalog No: #C49350

Package Size: #C49350-AF350 100ul #C49350-AF405 100ul #C49350-AF488 100ul #C49350-AF555 100ul #C49350-AF594 100ul #C49350-AF647 100ul #C49350-AF680 100ul #C49350-AF750 100ul #C49350-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Superoxide Dismutase 1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	ALS antibody ALS1 antibody Amyotrophic lateral sclerosis 1 adult antibody Cu/Zn SOD antibody Cu/Zn superoxide dismutase antibody Epididymis secretory protein Li 44 antibody HEL S 44 antibody Homodimer antibody hSod1 antibody Indophenoloxidase A antibody IPOA antibody Mn superoxide dismutase antibody SOD antibody SOD soluble antibody SOD1 antibody SOD2 antibody SODC antibody SODC_HUMAN antibody Superoxide dismutase [Cu-Zn] antibody Superoxide dismutase 1 antibody Superoxide dismutase 1 soluble antibody Superoxide dismutase Cu Zn antibody Superoxide dismutase cystolic antibody
Accession No.	Swiss-Prot#:P00441
Uniprot	P00441
GeneID	6647;
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	16 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

Cu-Zn superoxide dismutase-1 (SOD-1) is a well characterized cytosolic scavenger of oxygen free radicals that requires copper and zinc binding to potentiate its enzymatic activity. Enzymatically, SOD-1 facilitates the dismutation of oxygen radicals to hydrogen peroxide and also catalyzes pro-oxidant reactions, which include the peroxidase activity and hydroxyl radical generating activity. SOD-1 is ubiquitously expressed in somatic cells and functions as a homodimer. Defects in the gene encoding SOD-1 have been implicated in the progression of neurological diseases, including amyotrophic lateral sclerosis (ALS), a neurodegenerative disease characterized by the loss of spinal motor neurons, Down syndrome and Alzheimer's disease. In familial ALS, several mutations in SOD-1 predominate, resulting in the loss of zinc binding, the loss of scavenging activity of SOD-1, and correlate with an increase in neurotoxicity and motor neuron death.

Note: This product is for in vitro research use only