Ablumir
Built Around Immunology

Anti-SOD1 Rabbit mAb [31F33]

Catalog No.: A52312

Basic Information

Catalog No. (Cat.No.)	A52312
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	SOD1,Cu/Zn superoxide dismutase,SODC,ALS4

Product Information

Target	SOD1
Molecular Weight(Calculated)	23 kDa
Molecular Weight(Observed)	15 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	31F33
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IHC	1:100-1:5000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Superoxide dismutase-1, cytosolic
Gene Name	*SOD1*
Domain	NA
Background	SOD1 (Superoxide dismutase 1, Cu/Zn-SOD) is Cu-Zn-dependent superoxide dismutase catalyzing cytosolic superoxide-anion scavenging to counteract oxidative insults. Predominantly cytosolic with minor pool in mitochondrial intermembrane space, SOD1 uses Cu-Zn co-factors to dismutate superoxide radicals into oxygen and hydrogen peroxide, constituting primary cellular antioxidant defence. Germline SOD1 mutations are well-known drivers of amyotrophic lateral sclerosis (ALS). Under oxidative stress SOD1 misfolds and aggregates to exert neurotoxicity. Altered SOD1 expression reshapes ROS homeostasis and modulates proliferation and drug response in cancers.