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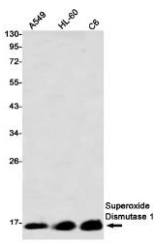
Anti Superoxide Dismutase Monoclonal Antibody

Catalog No.	MDAAB00001	**Reactivity**	H,R,M
Storage	Store at 2°C. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	WB, IF, IHC, IHC-P	**Isotype**	IgG

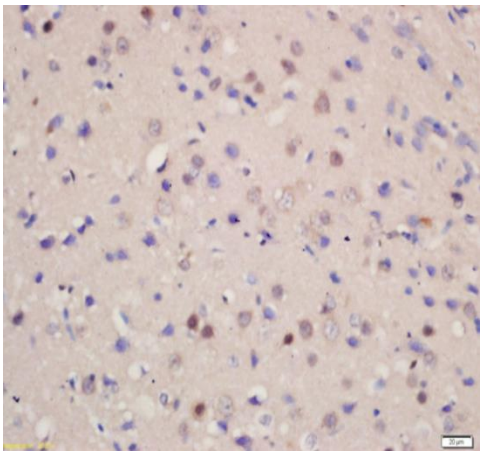
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Western blot detection of Superoxide Dismutase in A549,HL-60,C6 using Superoxide Dismutase 1 Rabbit mAb(1:1000 diluted)

Immunohistochemical of Superoxide Dismutase 1 in Human breast cancer tissue using Superoxide Dismutase 1 antibody at dilution 1:50



Immunogen Information

Immunogen	A synthetic peptide of human Superoxide Dismutase 1
GeneID	6647
Swissprot	P00441
Synonyms	ALS,SOD,ALS1,IPOA,STAHP,hSod1,HEL-S-44,homodimer

Product Information

Calculated MW	16kDa
Observed MW	16kDa
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
Purify	Affinity Purified
Clone No.	R08-5A5
Dilution	WB 1:500-1:1000 IHC 1:50-1:100 IHC-P 1:50-1:100

Background

The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.