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Anti-SOD2/Mnsod Rabbit Monoclonal Antibody

Catalog # ABO13485

Product Information

Application	WB, IHC
Primary Accession	P04179
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-SOD2/Mnsod Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	6648
Other Names	Superoxide dismutase [Mn], mitochondrial, 1.15.1.1, SOD2
Calculated MW	24750
Application Details	WB 1:500-1:2000 IHC 1:50-1:200
Subcellular Localization	Mitochondrion matrix.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: IDO-19
Immunogen	A synthesized peptide derived from human SOD2
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	SOD2
Function	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.

Cellular Location Mitochondrion matrix.

Images

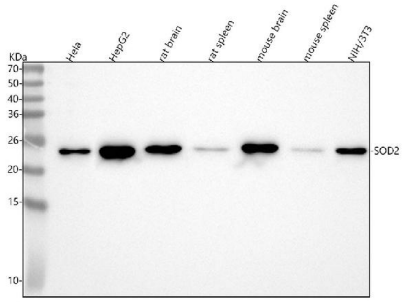

Figure 1. Western blot analysis of TOMM20/Tom20 using anti-TOMM20/Tom20 antibody (M04039).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human K562 whole cell lysates,
Lane 4: human Hela whole cell lysates,
Lane 5: rat kidney tissue lysates,
Lane 6: rat stomach tissue lysates,
Lane 7: mouse kidney tissue lysates,
Lane 8: mouse stomach tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TOMM20/Tom20 antigen affinity purified monoclonal antibody (Catalog # M04039) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TOMM20/Tom20 at approximately 16 kDa. The expected band size for TOMM20/Tom20 is at 16 kDa.