
Product Name: KD-Validated Sulfite Oxidase Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00901

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 60.3kDa

Antigen Information

Gene Name	SUOX
Alternative Names	SUOX; Sulfite Oxidase; Sulfite Oxidase, Mitochondrial; EC 1.8.3.1
Gene ID	6821.0
SwissProt ID	P51687
Immunogen	A synthesized peptide derived from human SUOX

Background

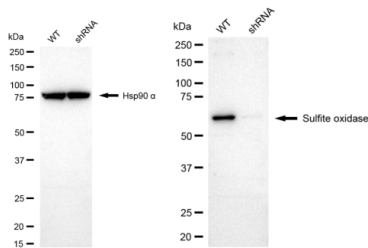
Sulfite oxidase is a homodimeric protein localized to the intermembrane space of mitochondria. Each subunit contains a heme domain and a molybdopterin-binding domain. The enzyme catalyzes the oxidation of sulfite to sulfate, the final reaction in the oxidative degradation of the sulfur amino acids cysteine and methionine. Sulfite oxidase deficiency results in neurological abnormalities which are often fatal at an early age. Alternative splicing results in multiple transcript variants encoding identical

proteins. [provided by RefSeq, Jul 2008]

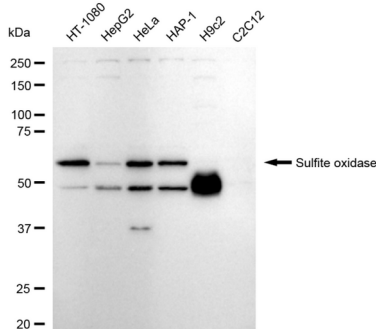
Research Area

Signal Transduction, Metabolism

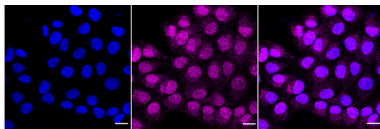
Image Data



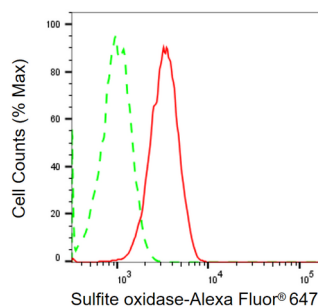
Western blotting analysis using Sulfite oxidase antibody (KVA00901). Sulfite oxidase expression in wild type (WT) and Sulfite oxidase shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Sulfite oxidase antibody (KVA00901, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Sulfite oxidase antibody (KVA00901). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Sulfite oxidase antibody (KVA00901, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with sulfite oxidase antibody (KVA00901, 1:1,000). Nuclei were stained blue with DAPI; Sulfite oxidase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Sulfite oxidase expression in HT-1080 cells using Sulfite oxidase antibody (KVA00901, 1:2,000). Green, isotype control; red, Sulfite oxidase.