

Product Name: KD-Validated SAMM50 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00946

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 52.0kDa

Antigen Information

Gene Name	SAMM50
Alternative Names	SAMM50 Sorting And Assembly Machinery Component; TRG-3; SAM50; YNL026W; CGI-51; OMP85; TOB55; Sorting And Assembly Machinery Component 50 Homolog; Transformation-Related Gene 3 Protein; Sorting And Assembly Machinery Component 50 Homolog (S. Cerevisiae); Sorting And Assembly Machinery 50kDa
Gene ID	25813.0
SwissProt ID	Q9Y512
Immunogen	A synthesized peptide derived from human SAMM50

Background

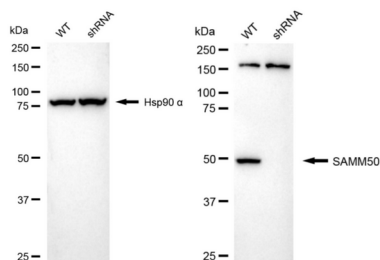
This gene encodes a component of the Sorting and Assembly Machinery (SAM) of the mitochondrial outer membrane. The Sam

complex functions in the assembly of beta-barrel proteins into the outer mitochondrial membrane.[provided by RefSeq, Jun 2011]

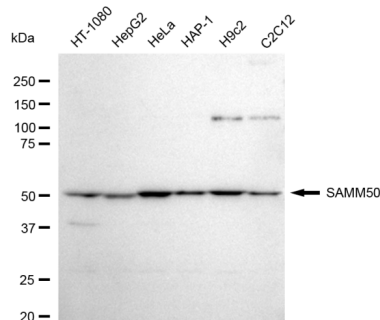
Research Area

Signal Transduction, Metabolism

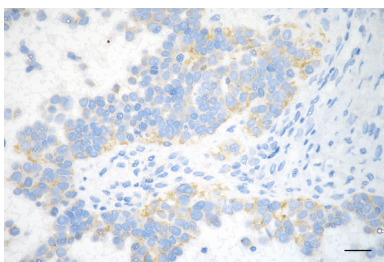
Image Data



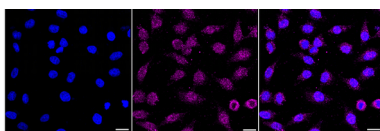
Western blotting analysis using SAMM50 antibody (KVA00946). SAMM50 expression in wild type (WT) and SAMM50 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SAMM50 antibody (KVA00946, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



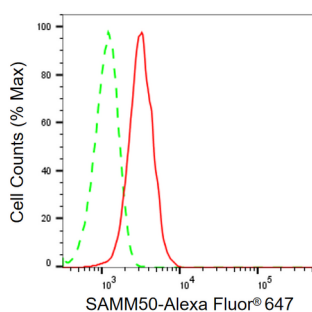
Western blotting analysis using SAMM50 antibody (KVA00946). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SAMM50 antibody (KVA00946, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human ovarian carcinoma using SAMM50 antibody (KVA00946, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells with SAMM50 antibody (KVA00946, 1:1,000). Nuclei were stained blue with DAPI; SAMM50 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 SAMM50 expression in HeLa cells using SAMM50 antibody (KVA00946, 1:2,000). Green, isotype control; red, SAMM50.

