

Product Name: KD-Validated Exo/Endonuclease G Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00815

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: 41.1kDa

Antigen Information

Gene Name	EXOG Exo/Endonuclease G; ENGL; Endonuclease G-Like 1; ENDOGL1; ENDOGL2; ENGL-A; ENGL-B;
Alternative Names	Endo/Exonuclease (5'-3'), Endonuclease G-Like; Nuclease EXOG, Mitochondrial; Endonuclease G-Like 2; Endo G-Like 1; EC 3.1.30.-; EC 3.1.30; ENGLA; ENGLB
Gene ID	9941.0
SwissProt ID	Q9Y2C4
Immunogen	A synthesized peptide derived from human ENDOGL1 / ENGL

Background

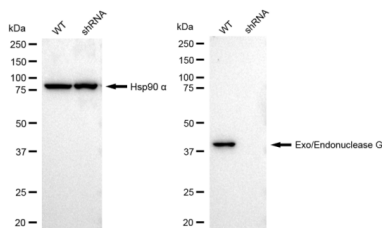
This gene encodes an endo/exonuclease with 5'-3' exonuclease activity. The encoded enzyme catalyzes the hydrolysis of ester

linkages at the 5' end of a nucleic acid chain. This enzyme is localized to the mitochondria and may play a role in programmed cell death. Alternatively spliced transcript variants have been described. A pseudogene exists on chromosome 18. [provided by RefSeq, Feb 2009]

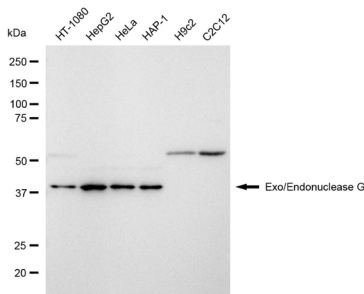
Research Area

Tags & Cell Markers, Epigenetics and Nuclear Signaling, Metabolism

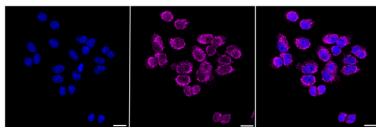
Image Data



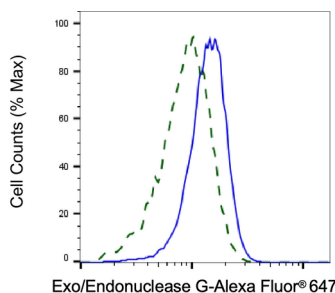
Western blotting analysis using Exo/endonuclease G antibody (KVA00815). Exo/Endonuclease G expression in wild type (WT) and exo/endonuclease G shRNA knockdown (KD) Hela cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Exo/endonuclease G antibody (KVA00815, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



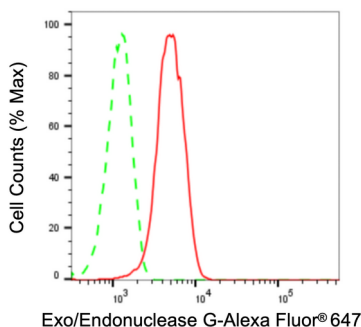
Western blotting analysis using Exo/Endonuclease G antibody (KVA00815). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Exo/Endonuclease G antibody (KVA00815, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Exo/Endonuclease G antibody (KVA00815, 1:1,000). Nuclei were stained blue with DAPI; Exo/Endonuclease G was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of Exo/Endonuclease G knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Exo/Endonuclease G antibody (KVA00815, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of exo/endonuclease G expression in HepG2 cells using exo/endonuclease G antibody (KVA00815, 1:2,000). Green, isotype control; red, exo/endonuclease G.

