

Product Name: KD-Validated Non-Homologous End Joining Factor 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00992

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: 33.3kDa

Antigen Information

Gene Name	NHEJ1 Non-Homologous End Joining Factor 1; XLF; XRCC4-Like Factor; Non-Homologous End-
Alternative Names	Joining Factor 1; Nonhomologous End-Joining Factor 1; Protein Cernunnos; Cernunnos; FLJ12610
Gene ID	79840.0
SwissProt ID	Q9H9Q4
Immunogen	A synthesized peptide derived from human XLF

Background

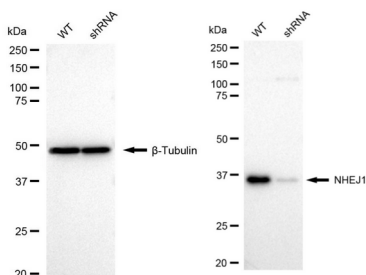
Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene

encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders. [provided by RefSeq, Jul 2008]

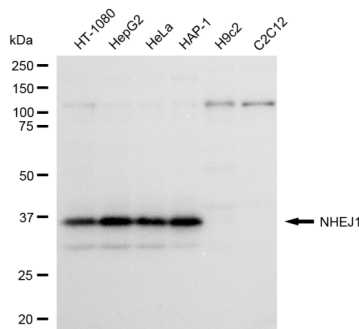
Research Area

Epigenetics and Nuclear Signaling

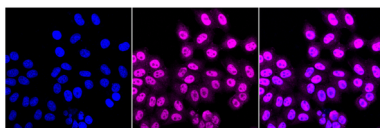
Image Data



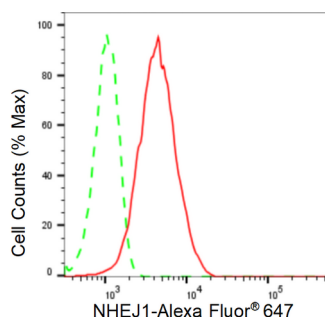
Western blotting analysis using NHEJ1 antibody (KVA00992). NHEJ1 expression in wild type (WT) and NHEJ1 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with NHEJ1 antibody (KVA00992, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using NHEJ1 antibody (KVA00992). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NHEJ1 antibody (KVA00992, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with NHEJ1 antibody (KVA00992, 1:1,000). Nuclei were stained blue with DAPI; NHEJ1 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 μ m.



Flow cytometric analysis of NHEJ1 expression in HepG2 cells using NHEJ1 antibody (KVA00992, 1:2,000). Green, isotype control; red, NHEJ1.