

Product Name: KD-Validated NR2C2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00978**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 65.4kDa

Antigen Information

Gene Name	NR2C2
Alternative Names	Nuclear Receptor Subfamily 2 Group C Member 2; TAK1; TR4; Orphan Nuclear Receptor TAK1; Orphan Nuclear Receptor TR4; TR2R1; HTAK1; Nuclear Receptor Subfamily 2, Group C, Member 2; Testicular Nuclear Receptor 4; Nuclear Hormone Receptor TR4; Testicular Receptor 4; Orphan Receptor TR4
Gene ID	7182.0
SwissProt ID	P49116
Immunogen	A synthesized peptide derived from human NR2C2 / TR4

Background

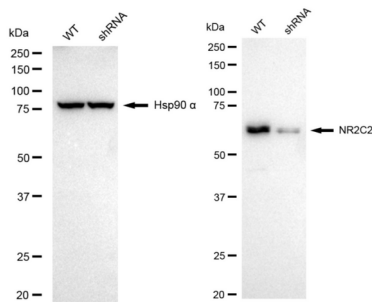
This gene encodes a protein that belongs to the nuclear hormone receptor family. Members of this family act as ligand-

activated transcription factors and function in many biological processes such as development, cellular differentiation and homeostasis. The activated receptor/ligand complex is translocated to the nucleus where it binds to hormone response elements of target genes. The protein encoded by this gene plays a role in protecting cells from oxidative stress and damage induced by ionizing radiation. The lack of a similar gene in mouse results in growth retardation, severe spinal curvature, subfertility, premature aging, and prostatic intraepithelial neoplasia (PIN) development. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]

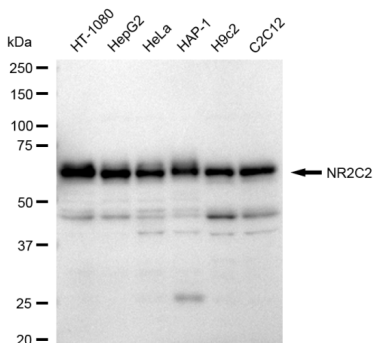
Research Area

Epigenetics and Nuclear Signaling

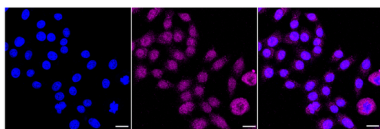
Image Data



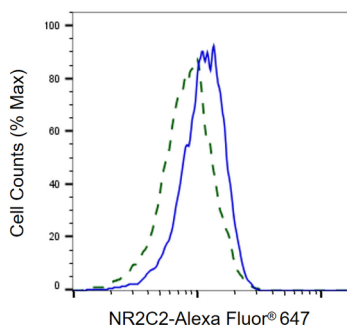
Western blotting analysis using NR2C2 antibody (KVA00978). NR2C2 expression in wild-type (WT) and NR2C2 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NR2C2 antibody (KVA00978, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



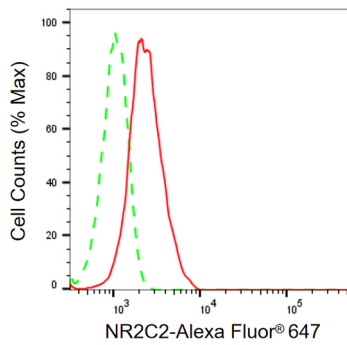
Western blotting analysis using NR2C2 antibody (KVA00978). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NR2C2 antibody (KVA00978, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with NR2C2 antibody (KVA00978, 1:1,000). Nuclei were stained blue with DAPI; NR2C2 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.



Validation of NR2C2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with NR2C2 antibody (KVA00978, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NR2C2 expression in HepG2 cells using NR2C2 antibody (KVA00978, 1:2,000). Green, isotype control; red, NR2C2.