

## [KD Validated] Anti-NR2C2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

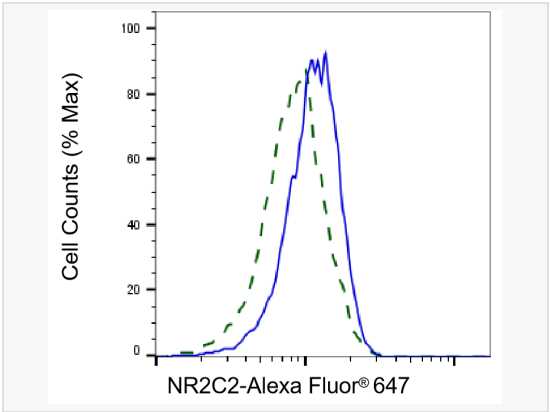
Catalog # R021052

### Product Information

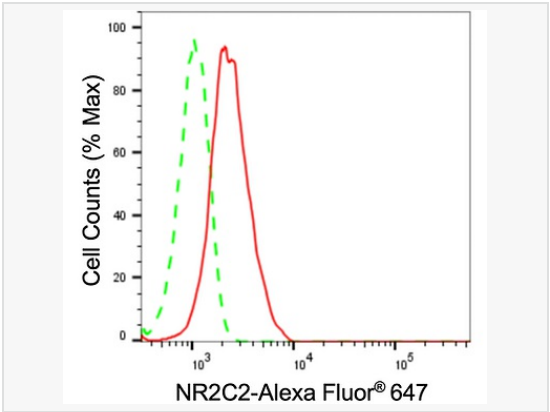
|             |                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Application | WB, FC, IF (Cell)/ICC                                                                                                             |
| Reactivity  | Human, Mouse, Rat                                                                                                                 |
| Dilution    | WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000                                                                            |
| Host        | Rabbit                                                                                                                            |
| Clonality   | Monoclonal                                                                                                                        |
| Clone No.   | 55B65Q86                                                                                                                          |
| Isotype     | IgG                                                                                                                               |
| Label       | Unconjugated                                                                                                                      |
| Immunogen   | A synthesized peptide derived from human NR2C2 / TR4                                                                              |
| Format      | Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.                           |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.       |
| Precautions | [KD Validated] Anti-NR2C2 Rabbit mAb [55B65Q86] is for research use only and not for use in diagnostic or therapeutic procedures. |

### Protein Information

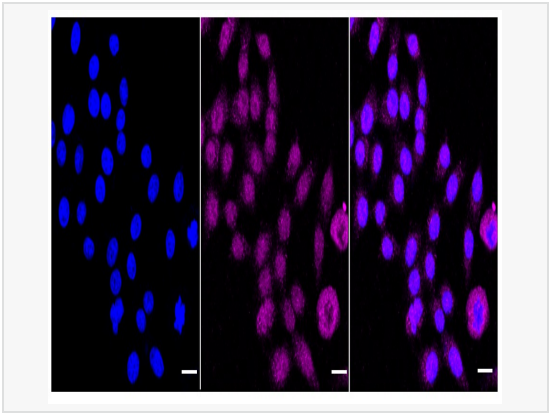
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms          | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Calculated MW     | Calculated MW: 65 kDa, Observed MW: 65 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Uniprot ID        | P49116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene ID           | 7182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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] |
| Cellular Location | Nucleus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



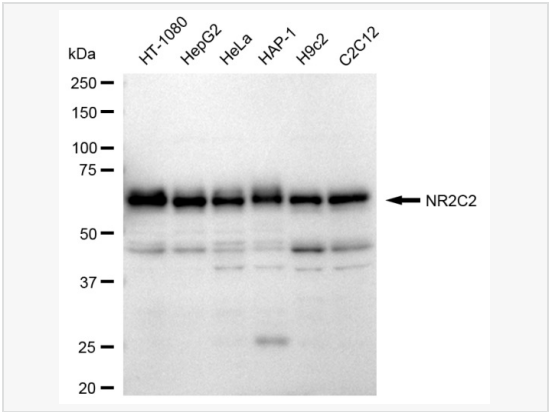
Validation of NR2C2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with NR2C2 antibody (R021052, 1:2,000) and analyzed using BD flow cytometer.



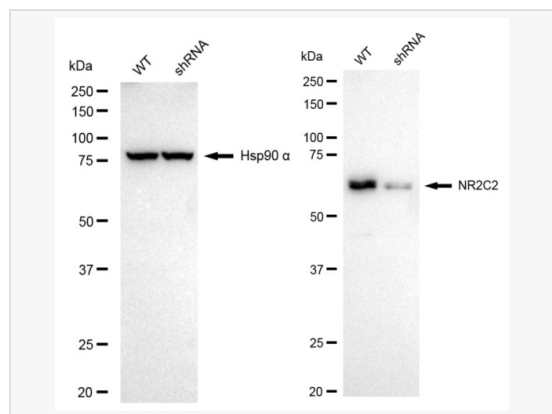
Flow cytometric analysis of NR2C2 expression in HepG2 cells using NR2C2 antibody (R021052, 1:2,000). Green, isotype control; red, NR2C2.



Immunocytochemical staining of HepG2 cells with NR2C2 antibody (R021052, 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.



Western blotting analysis using NR2C2 antibody (R021052). Total cell lysates (30 μg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NR2C2 antibody (R021052, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using NR2C2 antibody (R021052). 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 (R021052, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.