[KD Validated] Anti-RARA Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021017

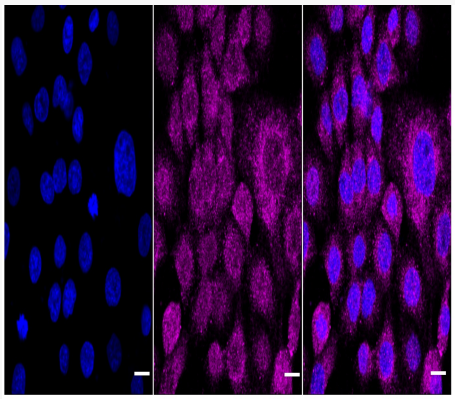
Product Information

Application	WB, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	81D73H54
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Retinoic Acid Receptor alpha
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-RARA Rabbit mAb [81D73H54] is for research use only and not for use in diagnostic or therapeutic procedures.

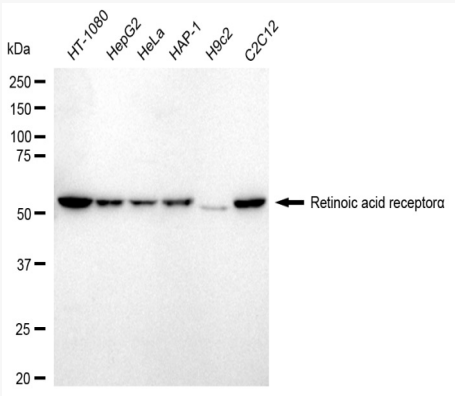
Protein Information

Synonyms	RARA; Retinoic Acid Receptor Alpha; RAR-Alpha; NR1B1; RARalpha; RAR; Nuclear Receptor Subfamily 1 Group B Member 1; Nucleophosmin-Retinoic Acid Receptor Alpha Fusion Protein NPM-RAR Long Form; Retinoic Acid Receptor, Alpha Polypeptide; Retinoic Acid Receptor, Alpha; PML-DDX5-RARA Fusion Protein; PML-DDX5-RARA Fusion.
Calculated MW	Calculated MW: 51 kDa, Observed MW: 55 kDa
Uniprot ID	P10276
Gene ID	5914
Background	This gene represents a nuclear retinoic acid receptor. The encoded protein, retinoic acid receptor alpha, regulates transcription in a ligand-dependent manner. This gene has been implicated in regulation of development, differentiation, apoptosis, granulopoeisis, and transcription of clock genes. Translocations between this locus and several other loci have been associated with acute promyelocytic leukemia. Alternatively spliced transcript variants have been found for this locus.[provided by RefSeq, Sep 2010]
Cellular Location	Nucleus. Cytoplasm. Nuclear localization depends on ligand binding, phosphorylation and sumoylation. Transloaction to the nucleus in the absence of ligand is dependent on activation of PKC and the downstream MAPK phosphorylation.

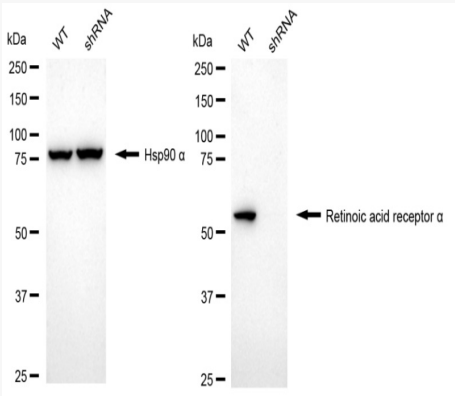
Validation Images



Immunocytochemical staining of HT-1080 cells with Retinoic acid receptor alpha antibody (R021017, 1:1,000) . Nuclei were stained blue with DAPI; Retinoic acid receptor alpha 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 Retinoic acid receptor alpha antibody (R021017). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Retinoic acid receptor alpha antibody (R021017, 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 Retinoic Acid Receptor alpha antibody (R021017). Retinoic Acid Receptor alpha expression in wild type (WT) and Retinoic Acid Receptor alpha shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Retinoic Acid Receptor alpha antibody (R021017, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.