

Product Name: RAR α (phospho Ser77) Rabbit Polyclonal Antibody
Catalog #: APRab05349

Summary

Production Name	RAR α (phospho Ser77) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	ELISA,IHC,WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	RARA
Alternative Names	RARA; NR1B1; Retinoic acid receptor alpha; RAR-alpha; Nuclear receptor subfamily 1 group B member 1
Gene ID	5914.0
SwissProt ID	P10276.The antiserum was produced against synthesized peptide derived from human Retinoic Acid Receptor alpha around the phosphorylation site of Ser77. AA range:46-95

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000..
Molecular Weight	45kD

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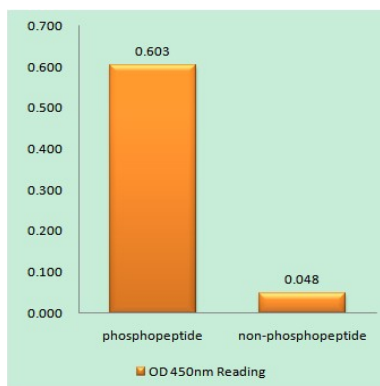
Background

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, granulopoiesis, 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],disease:Chromosomal aberrations involving RARA may be a cause of acute promyelocytic leukemia (APL) [MIM:612376]. Translocation t(11;17)(q32;q21) with ZBTB16/PLZF; translocation t(15;17)(q21;q21) with PML; translocation t(5;17)(q32;q11) with NPM.,domain:Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain.,function:This is a receptor for retinoic acid. This metabolite has profound effects on vertebrate development. Retinoic acid is a morphogen and is a powerful teratogen. This receptor controls cell function by directly regulating gene expression.,online information:Retinoic acid receptor entry,PTM:Phosphorylated. Phosphorylation does not change during cell cycle. Phosphorylation on Ser-77 is crucial for transcriptional activity.,similarity:Belongs to the nuclear hormone receptor family.,similarity:Belongs to the nuclear hormone receptor family. NR1 subfamily.,similarity:Contains 1 nuclear receptor DNA-binding domain.,subunit:Interacts with CDK7 (By similarity). Interacts with NCOA3 and NCOA6 coactivators, leading to a strong increase of transcription of target genes. Interacts with NOCA7 in a ligand-inducible manner.,

Research Area

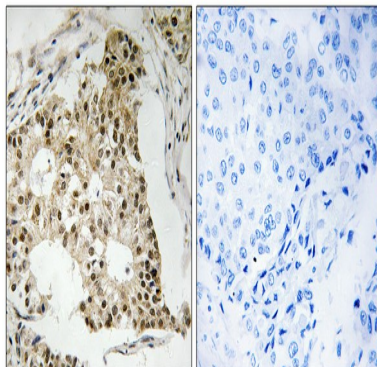
Pathways in cancer;Acute myeloid leukemia;

Image Data

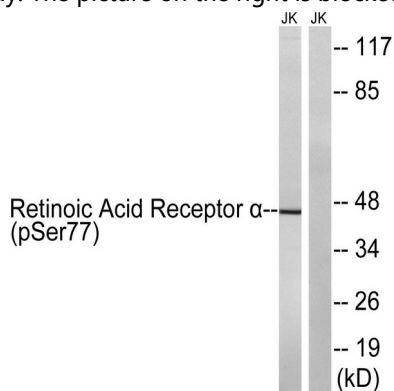


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using Retinoic Acid Receptor alpha (Phospho-Ser77) Antibody

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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Retinoic Acid Receptor alpha (Phospho-Ser77) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 125ng/ml 30 ' and Jurkat cells treated with insulin 0.01U/ml 15 ' , using Retinoic Acid Receptor alpha (Phospho-Ser77) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.