

Datasheet for ABIN7138697

**anti-Retinoic Acid Receptor alpha antibody (pSer77)**[Go to Product page](#)**3** Images

## Overview

Quantity:	100 µL
Target:	Retinoic Acid Receptor alpha (RARA)
Binding Specificity:	pSer77
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Retinoic Acid Receptor alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 77 (P-P-S(p)-P-P) derived from Human Retinoic Acid Receptor alpha.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

## Target Details

Target:	Retinoic Acid Receptor alpha (RARA)
Alternative Name:	RARA ( <a href="#">RARA Products</a> )

## Target Details

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Background:	<p>Background: Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone acetylation, chromatin condensation and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation. RARA plays an essential role in the regulation of retinoic acid-induced germ cell development during spermatogenesis. Has a role in the survival of early spermatocytes at the beginning prophase of meiosis. In Sertoli cells, may promote the survival and development of early meiotic prophase spermatocytes. In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function By similarity. Regulates expression of target genes in a ligand-dependent manner by recruiting chromatin complexes containing KMT2E/MLL5. Mediates retinoic acid-induced granulopoiesis.</p> <p>Aliases: NR1B1 antibody, Nuclear mitotic apparatus protein retinoic acid receptor alpha fusion protein antibody, Nuclear receptor subfamily 1 group B member 1 antibody, Nucleophosmin retinoic acid receptor alpha fusion protein NPM RAR long form antibody, RAR alpha antibody, RAR antibody, RAR-alpha antibody, rara antibody, RARA_HUMAN antibody, RARalpha antibody, RARalpha1 antibody, Retinoic acid nuclear receptor alpha variant 1 antibody, Retinoic acid nuclear receptor alpha variant 2 antibody, Retinoic acid receptor alpha antibody, Retinoic acid receptor alpha polypeptide antibody</p>
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UniProt:	<a href="#">P10276</a>
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Pathways:	<a href="#">Nuclear Receptor Transcription Pathway</a> , <a href="#">Retinoic Acid Receptor Signaling Pathway</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Steroid Hormone Mediated Signaling Pathway</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">S100 Proteins</a>
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## Application Details

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Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100,
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Restrictions:	For Research Use only
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## Handling

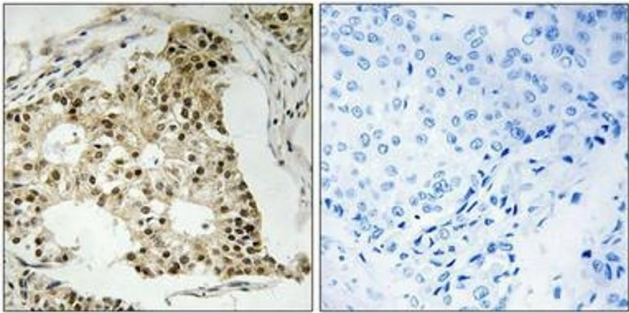
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Format:	Liquid
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Handling

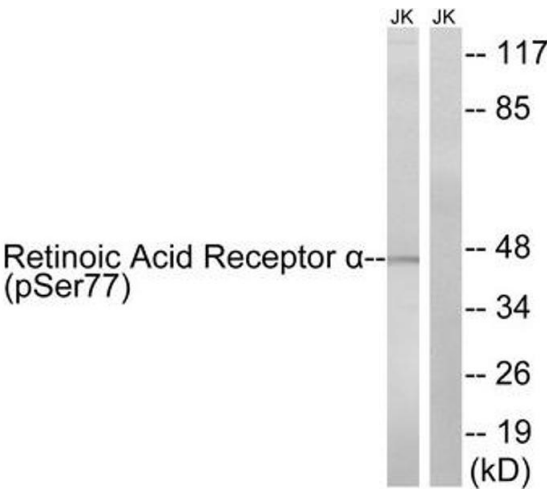
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



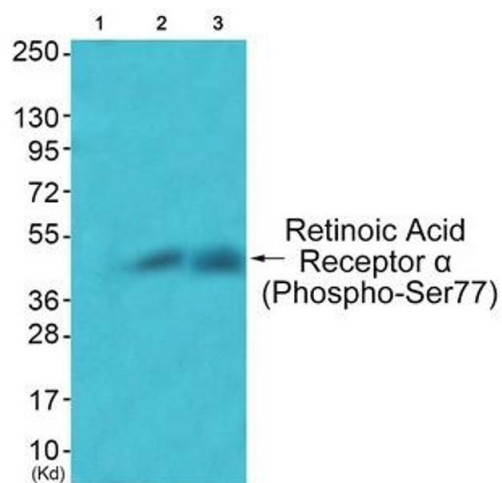
Immunohistochemistry

**Image 1.** Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using Retinoic Acid Receptor α (Phospho-Ser77) antibody. The picture on the right is treated with the synthesized peptide.



Western Blotting

**Image 2.** Western blot analysis of extracts from Jurkat cells treated with PMA (125 ng/mL, 30 mins), using Retinoic Acid Receptor α(Phospho-Ser77) antibody. The lane on the right is treated with the synthesized peptide.



Western Blotting

**Image 3.** Western blot analysis of extracts from JK cells (Lane 2) and COS7 cells (Lane 3), using Retinoic Acid Receptor α (Phospho-Ser77) Antibody. The lane on the left is treated with synthesized peptide.