

Retinoic Acid Receptor  $\alpha$  (Phospho-Ser77) Antibody

Catalog No: #12121



Package Size: #12121-1 50ul #12121-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

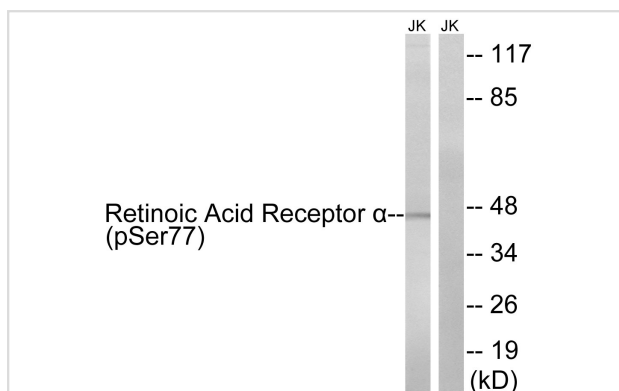
Product Name	Retinoic Acid Receptor $\alpha$ (Phospho-Ser77) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of Retinoic Acid Receptor $\alpha$ only when phosphorylated at serine 77.
Immunogen Type	peptide
Immunogen Description	Peptide sequence around phosphorylation site of serine 77 (P-P-S(p)-P-P) derived from Human Retinoic Acid Receptor $\alpha$ .
Target Name	Retinoic Acid Receptor $\alpha$
Modification	Phospho
Other Names	NR1B1; RAR-alpha; Retinoic acid receptor alpha; retinoic acid receptor; alpha; RRA
Accession No.	Swiss-Prot#:P10276;NCBI Gene#:5914
SDS-PAGE MW	45kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

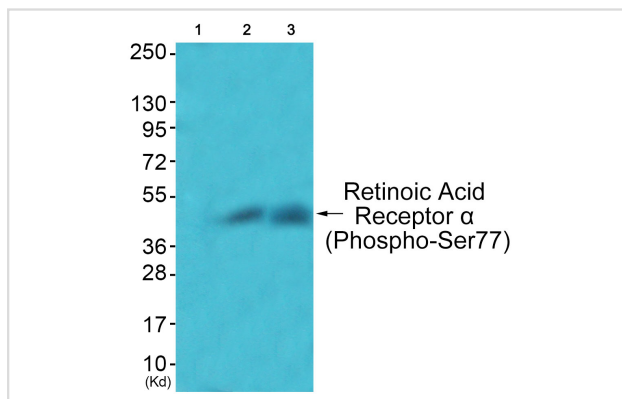
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

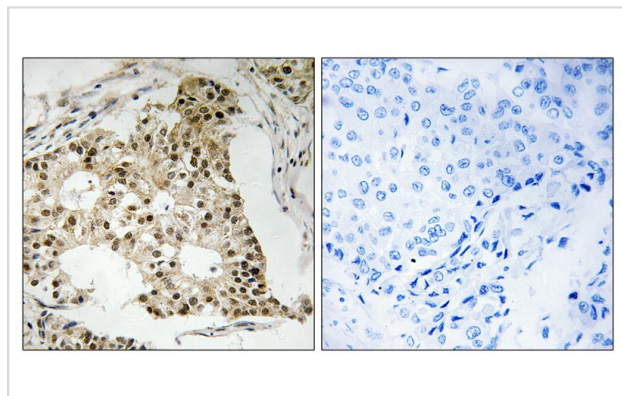
## Images



Western blot analysis of extracts from Jurkat cells treated with PMA (125ng/ml, 30mins), using Retinoic Acid Receptor  $\alpha$ (Phospho-Ser77) antibody #12121. The lane on the right is treated with the synthesized peptide.



Western blot analysis of extracts from JK cells (Lane 2) and COS7 cells (Lane 3), using Retinoic Acid Receptor  $\alpha$  (Phospho-Ser77) Antibody #12121. The lane on the left is treated with synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using Retinoic Acid Receptor  $\alpha$  (Phospho-Ser77) antibody #12121. The picture on the right is treated with the synthesized peptide.

## 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.