# antibodies .- online.com







# anti-Retinoic Acid Receptor alpha antibody (pSer77)





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

#### **Product Details**

Immunogen:	A synthesized peptide derived from human Retinoic Acid Receptor alpha around the phosphorylation site of Ser77.	
Isotype:	IgG	
Specificity:	Phospho-Retinoic Acid Receptor alpha (Ser77) Antibody detects endogenous levels of Retinoic Acid Receptor alpha only when phosphorylated at Sersine 77.	
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.	

## Target Details

Target: Retinoic Acid Receptor alpha (RARA)		
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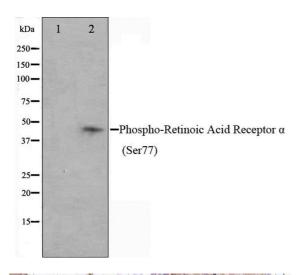
## Target Details

Alternative Name:	RARA (RARA Products)
Background:	Description: 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).
	Gene: RARA
Molecular Weight:	45kDa
Gene ID:	5914
UniProt:	P10276
Pathways:	Nuclear Receptor Transcription Pathway, Retinoic Acid Receptor Signaling Pathway,
	Intracellular Steroid Hormone Receptor Signaling Pathway, Steroid Hormone Mediated
	Signaling Pathway, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of
	Immune Effector Process, S100 Proteins
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.

#### Handling

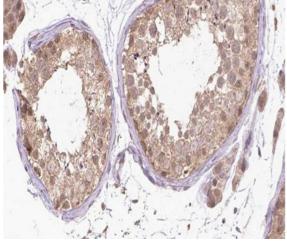
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

#### **Images**



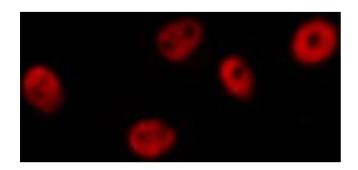
#### **Western Blotting**

**Image 1.** Western blot analysis on Jurkat cell lysate using Phospho-Retinoic Acid Receptor alpha (Ser77) Antibody, The lane on the left is treated with the antigen-specific peptide.



#### **Immunohistochemistry**

**Image 2.** ABIN6266463 at 1/200 staining human Testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### Immunofluorescence (fixed cells)

**Image 3.** ABIN6266463 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.