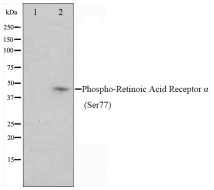
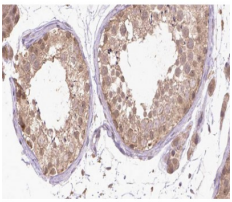
Phospho-Retinoic Acid Receptor alpha (Ser77) Ab

Cat.#: AF0050	Concn.: 1mg/ml	Mol.Wt.: 45kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Specificity:	Phospho-Retinoic Acid Receptor alpha (Ser77) Ab detects endogenous levels of Retinoic Acid Receptor alpha only when phosphorylated at Sersine 77.
Immunogen:	A synthesized peptide derived from human Retinoic Acid Receptor alpha around the phosphorylation site of Ser77.
Uniprot:	P10276
Description:	RARA is a receptor for retinoic acid, a potent mammalian morphogen and teratogen that has profound effects on vertebrate development. RARA is a member of the nuclear receptor superfamily. Controls cell function by directly regulating gene expression. Its phosphorylation is crucial for transcriptional activity. Aberrations involving RARA may be a cause of acute promyelocytic leukemia. Two splice-variant isoforms have been described.
Subcellular 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.
Similarity:	Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.Belongs to the nuclear hormone receptor family. NR1 subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis on Jurkat cell lysates using Phospho-Retinoic Acid Receptor alpha (Ser77) Ab,The lane on the left was treated with the antigen-specific peptide.



AF0050 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 Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

AF0050 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 Ab 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 Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.