

## RXRA (phospho-S260) polyclonal antibody

Catalog: BS64197

Host: Rabbit

Reactivity: Human

### BackGround:

The human retinoid X receptors (RXRs) are encoded by three distinct genes (RXR $\alpha$ , RXR $\beta$ , and RXR $\gamma$ ) and bind selectively and with high affinity to the vitamin A derivative, 9-cis-retinoic acid. RXRs are type-II nuclear hormone receptors that are largely localized to the nuclear compartment independent of ligand binding. Nuclear RXRs form heterodimers with nuclear hormone receptor subfamily 1 proteins, including thyroid hormone receptor, retinoic acid receptors, vitamin D receptor, peroxisome proliferator-activated receptors, liver X receptors, and farnesoid X receptor. Since RXRs heterodimerize with multiple nuclear hormone receptors, they play a central role in transcriptional control of numerous hormonal signaling pathways by binding to cis-acting response elements in the promoter/enhancer region of target genes. Retinoid X receptor  $\alpha$  (RXR $\alpha$ ) is the founding RXR family member and is predominantly expressed in liver, kidney, epidermis, intestine and a variety of tissues. Knock-out of the murine rxr $\alpha$  gene results in embryonic lethality tentatively due to myocardial hypoplasia, which demonstrates the importance of RXR $\alpha$  to retinoid signaling in vivo. Biochemical evidence suggests that RXR $\alpha$  transcriptional activity is post-translationally regulated through the Ras-Raf-MAPK signaling cascade. MAPK-dependent phosphorylation of RXR $\alpha$  directly abrogates the ability of RXR $\alpha$  to associate with nuclear receptor coactivators.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 57 kDa

### Swiss-Prot:

P19793

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

IHC: 1:50~1:200

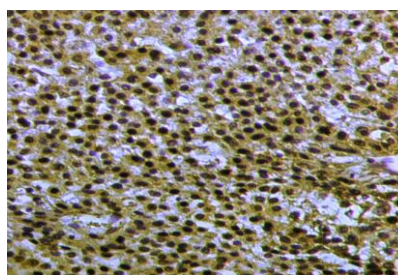
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

RXRA (phospho-S260) polyclonal antibody detects endogenous levels of RXRA protein only when phosphorylated at Ser260.

### DATA:



Immunohistochemistry (IHC) analyzes of RXRA (phospho-S260) polyclonal antibody in paraffin-embedded human liver cancer tissue at 1:50.

### Note:

For research use only, not for use in diagnostic procedure.

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