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Constitutive androstane receptor Rabbit pAb

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Catalog # AP55363

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q14994
Predicted	Chimpanzee, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39942
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Constitutive androstane receptor
Epitope Specificity	201-300/352
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. Cytoplasm; cytoskeleton. Recruited to the cytoplasm by DNAJC7.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the nuclear receptor superfamily, and is a key regulator of xenobiotic and endobiotic metabolism. The protein binds to DNA as a monomer or a heterodimer with the retinoid X receptor and regulates the transcription of target genes involved in drug metabolism and bilirubin clearance, such as cytochrome P450 family members. Unlike most nuclear receptors, this transcriptional regulator is constitutively active in the absence of ligand but is regulated by both agonists and inverse agonists. Ligand binding results in translocation of this protein to the nucleus, where it activates or represses target gene transcription. These ligands include bilirubin, a variety of foreign compounds, steroid hormones, and prescription drugs. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	9970
Other Names	Nuclear receptor subfamily 1 group I member 3, Constitutive activator of retinoid response, Constitutive active response, Constitutive androstane receptor, CAR, Orphan nuclear receptor MB67, NR1I3, CAR
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NR1I3
Synonyms	CAR
Function	Binds and transactivates the retinoic acid response elements that control expression of the retinoic acid receptor beta 2 and alcohol dehydrogenase 3 genes. Transactivates both the phenobarbital responsive element module of the human CYP2B6 gene and the CYP3A4 xenobiotic response element.
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, cytoskeleton. Note=Recruited to the cytoplasm by DNAJC7.
Tissue Location	Predominantly expressed in liver.

Background

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