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Constitutive androstane receptor Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55363

Specification

Constitutive androstane receptor Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q14994
Reactivity	**Chimpanzee**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**45 KDa**
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.**
SIMILARITY	**Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.**
Post-translational modifications	**Phosphorylated at Thr-38 by PKC, dephosphorylation of Thr-38 is required for nuclear translocation and activation.**
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]

Constitutive androstane receptor Polyclonal Antibody - 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

Target/Specificity
Predominantly expressed in liver.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

Constitutive androstane receptor Polyclonal Antibody - 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.

Constitutive androstane receptor Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

- Cell Culture

Constitutive androstane receptor Polyclonal Antibody - Images