

CYP26A1 Polyclonal Antibody

Catalog No :	YT1199
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	CYP26A1
Fields :	>>Retinol metabolism;>>Metabolic pathways
Gene Name :	CYP26A1
Protein Name :	Cytochrome P450 26A1
Human Gene Id :	1592
Human Swiss Prot No :	O43174
Mouse Gene Id :	13082
Mouse Swiss Prot No :	O55127
Immunogen :	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 26A1. AA range:251-300
Specificity :	CYP26A1 Polyclonal Antibody detects endogenous levels of CYP26A1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 56kD

Cell Pathway : Retinol metabolism;

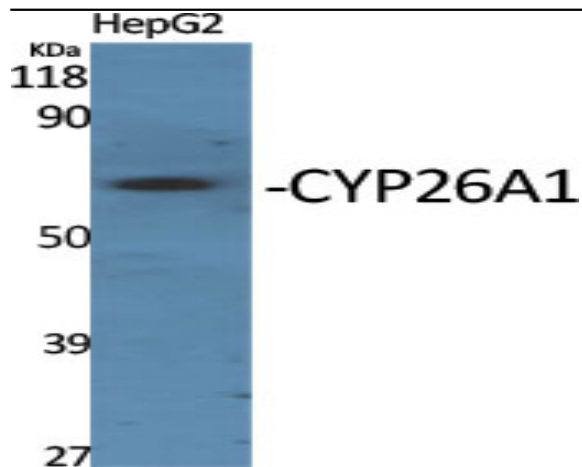
Background : cytochrome P450 family 26 subfamily A member 1(CYP26A1) Homo sapiens
This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein acts on retinoids, including all-trans-retinoic acid (RA), with both 4-hydroxylation and 18-hydroxylation activities. This enzyme regulates the cellular level of retinoic acid which is involved in regulation of gene expression in both embryonic and adult tissues. Two alternatively spliced transcript variants of this gene, which encode the distinct isoforms, have been reported. [provided by RefSeq, Jul 2008],

Function : cofactor:Heme group.,function:Plays a key role in retinoic acid metabolism. Acts on retinoids, including all-trans-retinoic acid (RA) and its stereoisomer 9-cis-RA. Capable of both 4-hydroxylation and 18-hydroxylation. Responsible for generation of several hydroxylated forms of RA, including 4-OH-RA, 4-oxo-RA and 18-OH-RA.,induction:By retinoic acid.,similarity:Belongs to the cytochrome P450 family.,tissue specificity:Highest levels in adult liver, heart, pituitary gland, adrenal gland, placenta and regions of the brain.,

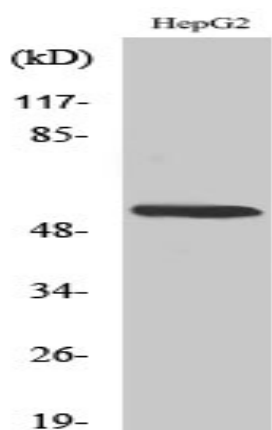
Subcellular Location : Endoplasmic reticulum membrane ; Peripheral membrane protein. Microsome membrane ; Peripheral membrane protein.

Expression : Expressed in most fetal and adult tissues with highest levels in adult liver, heart, pituitary gland, adrenal gland, placenta and regions of the brain (PubMed:9826557). Expressed at high levels in lung, pancreas, skin and uterus (at protein level) (PubMed:22020119). Lower expression level is detected in spleen, kidney, intestine and adipose tissue (at protein level) (PubMed:22020119).

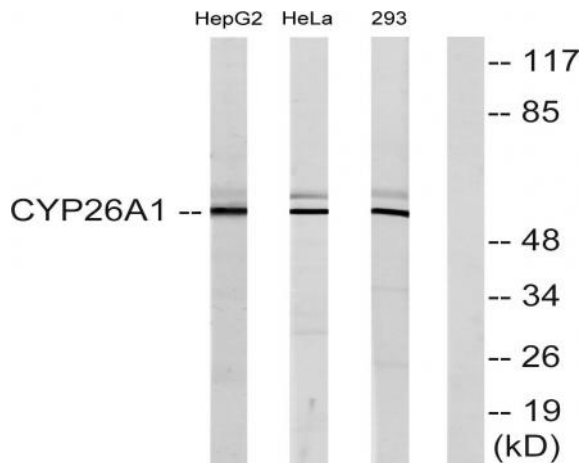
Products Images



Western Blot analysis of various cells using CYP26A1 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293 cells using CYP26A1 Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from HepG2, HeLa, and 293 cells, using Cytochrome P450 26A1 Antibody. The lane on the right is blocked with the synthesized peptide.