Best Tools for immunology Research

# CYP2A7 Polyclonal Antibody

| | |
|---|---|
| **Catalog No :** | YT1207 |
| **Reactivity :** | Human;Rat;Mouse; |
| **Applications :** | WB;IHC;IF;ELISA |
| **Target :** | CYP2A7 |
| **Fields :** | >>Caffeine metabolism;>>Retinol metabolism;>>Metabolism of xenobiotics by cytochrome P450;>>Drug metabolism - cytochrome P450;>>Drug metabolism - other enzymes;>>Metabolic pathways;>>Chemical carcinogenesis - DNA adducts;>>Lipid and atherosclerosis |
| **Gene Name :** | CYP2A7 |
| **Protein Name :** | Cytochrome P450 2A7 |
| **Human Gene Id :** | 1549 |
| **Human Swiss Prot No :** | P20853 |
| **Immunogen :** | Synthesized peptide derived from the C-terminal region of human CYP2A7. |
| **Specificity :** | CYP2A7 Polyclonal Antibody detects endogenous levels of CYP2A7 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. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200 |
| **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 :** Caffeine metabolism;Retinol metabolism;Drug metabolism;Drug metabolism;

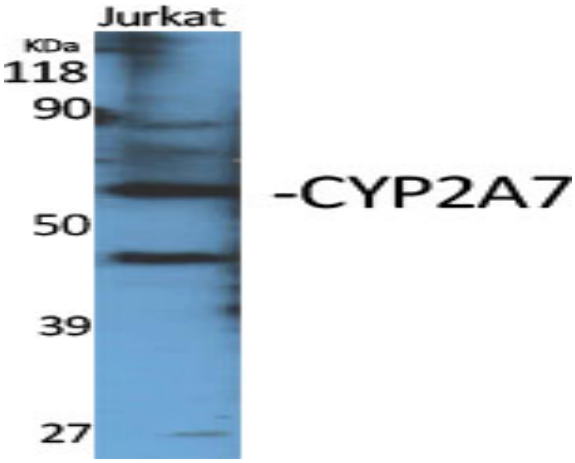
**Background :** This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum; its substrate has not yet been determined. This gene, which produces two transcript variants, is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008],

**Function :** catalytic activity:RH + reduced flavoprotein + O(2) = ROH + oxidized flavoprotein + H(2)O.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,cofactor:Heme group.,function:Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.,induction:P450 can be induced to high levels in liver and other tissues by various foreign compounds, including drugs, pesticides, and carcinogens.,similarity:Belongs to the cytochrome P450 family.,

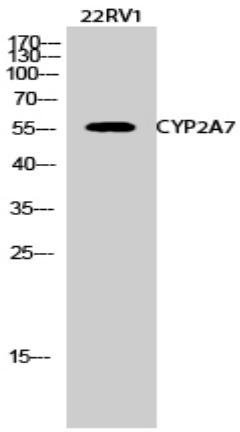
**Subcellular Location :** Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.

**Expression :** Liver,

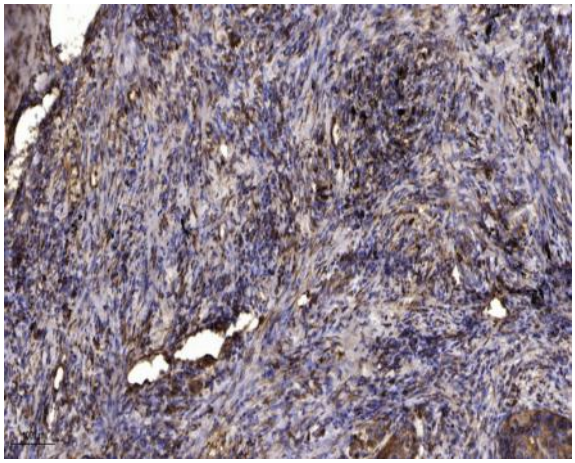
## Products Images




Western Blot analysis of various cells using CYP2A7 Polyclonal Antibody diluted at 1:2000




Western Blot analysis of 22RV1 cells using CYP2A7 Polyclonal Antibody diluted at 1:2000



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).