

Rabbit Anti-Cyp2J3 antibody

SL0461R

Product Name Cyp2J3

Chinese Name 细胞色素 P450 2J3 抗体

Alias CP2J3_RAT; cytochrome P450, family 2, subfamily j, polypeptide 3; cytochrome P450 monooxygenase; Cyp2j9; cytochrome P450, family 2, subfamily j, polypeptide 9; cytochrome P450, family 2, subfamily j, polypeptide 3; CYP11J3; cytochrome P450 2J3.

Research Area Cell biology

Immunogen Species Rabbit

Clonality Polyclonal

React Species Mouse, (predicted: Rat,)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 58kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from rat Cytochrome P450 2J3: 402-502/502

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

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Cytochrome P450s are haem-thiolate proteins involved in the oxidative degradation of various compounds. They are particularly well known for their role in the degradation of environmental toxins and mutagens. They can be divided into 4 classes, according to the method by which electrons from NAD(P)H are delivered to the catalytic site. Sequence conservation is relatively low within the family - there are only 3 absolutely conserved residues - but their general topography and structural fold are highly conserved. The conserved core is composed of a coil termed the 'meander', a four-helix bundle, helices J and K, and two sets of beta-sheets. These constitute the haem-binding loop (with an absolutely conserved cysteine that serves as the 5th ligand for the haem iron), the proton-transfer groove and the absolutely conserved EXXR motif in helix K. While prokaryotic P450s are soluble proteins, most eukaryotic P450s are associated with microsomal membranes. their general enzymatic function is to catalyse regiospecific and stereospecific oxidation of non-activated hydrocarbons at physiological temperatures.

Function:

This enzyme metabolizes arachidonic acid predominantly via a NADPH-dependent olefin epoxidation mainly to 14,15-, 11,12-, and 8,9-epoxyeicosatrienoic acids (EET). It also acts as an omega-1-hydroxylase by metabolizing arachidonic acid to 19-hydroxyeicosatetraenoic acid (19-OH-AA).

**Product
Detail**

Subcellular Location:

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.

Tissue Specificity:

Abundantly expressed in heart and liver.

Similarity:

Belongs to the cytochrome P450 family.

SWISS:

P51590

Gene ID:

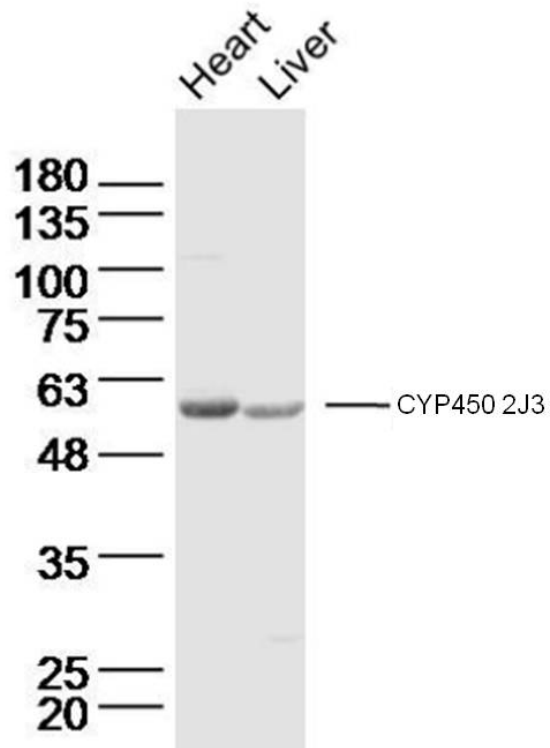
313375

Database links:

[Entrez Gene: 313375](#) Rat

[SwissProt: P51590](#) Rat

**Product
Picture**



Sample:

Heart (Mouse) Lysate at 40 ug

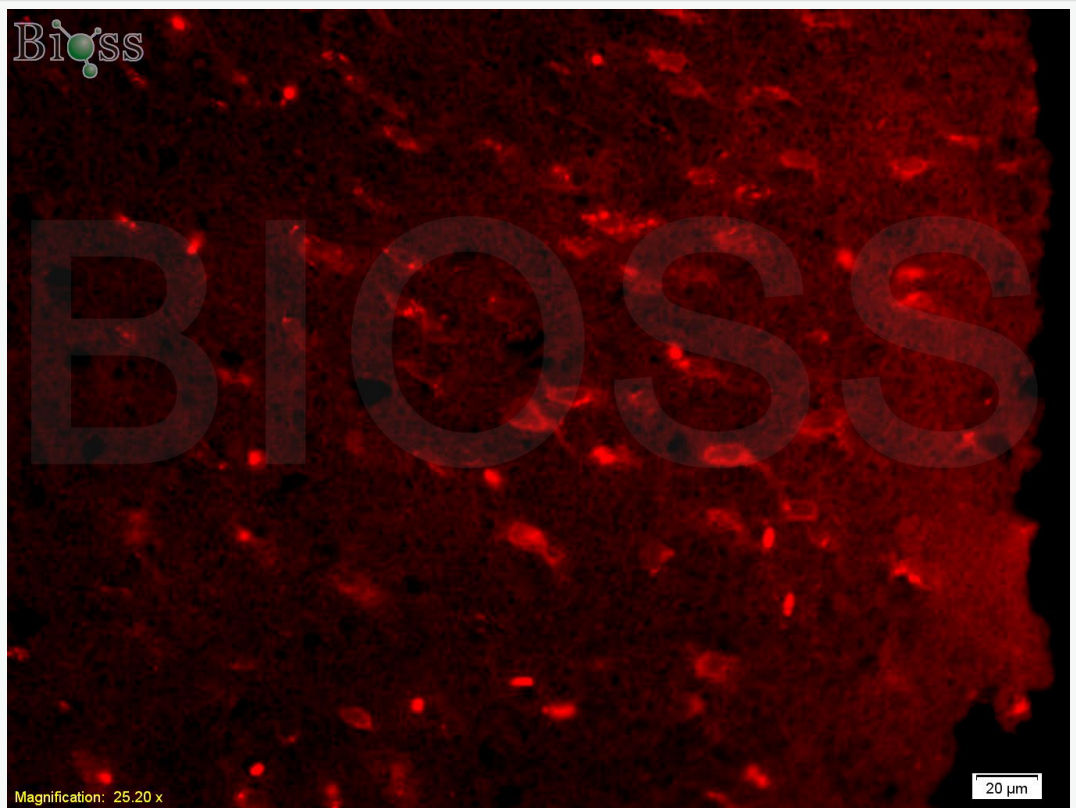
Liver (Mouse) Lysate at 40 ug

Primary: Anti-CYP450 2J3 (SL0461R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD



Tissue/cell: mouse brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CYP450 Polyclonal Antibody, Unconjugated(SL0461R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, PE conjugated(SL0295G-PE)used at 1:200 dilution for 40 minutes at 37°C.