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Cyp2J3 Rabbit pAb

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Catalog # AP94039

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P51590
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57969
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat Cytochrome P450 2J3
Epitope Specificity	402-502/502
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	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.
SIMILARITY	Belongs to the cytochrome P450 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	313375
Other Names	Cytochrome P450 2J3, 1.14.14.1, CYPIIJ3, Cyp2j3, Cyp2j9
Target/Specificity	Abundantly expressed in heart and liver.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	Cyp2j3
Synonyms	Cyp2j9
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).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein
Tissue Location	Abundantly expressed in heart and liver.

Background

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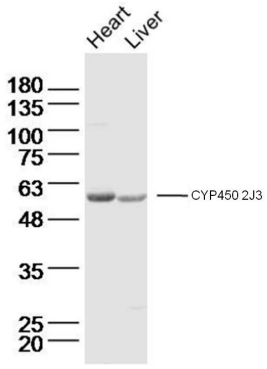
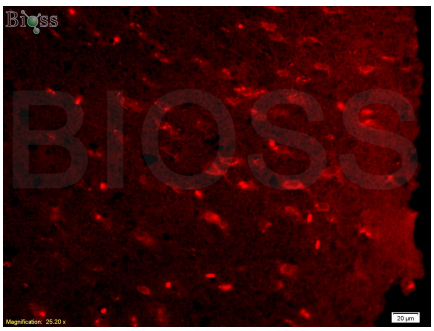
Images



Sample: Heart (Mouse) Lysate at 40 ug Liver (Mouse) Lysate at 40 ug Primary: Anti-CYP450 2J3 (AP94039) 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 (0.01M, 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(AP94039) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, PE conjugated(bs-0295G-PE)used at 1:200 dilution for 40 minutes at 37°C.