bs-2123R **[Primary Antibody]**

Cyp2J3 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 313375 **SWISS:** P51590

Target: Cyp2J3

Immunogen: KLH conjugated synthetic peptide derived from rat Cyp2-j3: 401-502/502.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

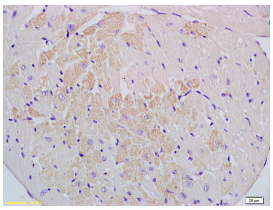
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Rat)

Predicted MW.: 55 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cyp2-j3 Polyclonal Antibody, Unconjugated(bs-2123R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=5.5]** Huang X et al. Ophiopogonin D Reduces Myocardial Ischemia-Reperfusion Injury via Upregulating CYP2J3/EETs

in Rats.(2018) Cellular Physiology and Biochemistry.49(4):1646-1658.. WB ;Rat. 30227401

- **[IF=5.076]** Wang J et al. Ophiopogonin D Increases SERCA2a Interaction with Phospholamban by Promoting CYP2J3 UpregulationOxid Med Cell Longev.2020 Dec 31;2020:8857906. WB ;Rat、Human. 33488937
- **[IF=3.22]** You et al. Ophiopogonin D maintains Ca2+ homeostasis in rat cardiomyocytes in vitro by upregulating CYP2J3/EETs and suppressing ER stress. (2016) Acta.Pharmacol.Sin. 37:368-81 WB ;Rat. 26838069
- **[IF=3.457]** Zhang J et al. EETs/PPARs activation together mediates the preventive effect of naringenin in high glucose-induced cardiomyocyte hypertrophy.(2019)Biomed Pharmacother;Jan;109:1498-1505. WB ;. 30551401