bs-12926R **[Primary Antibody]**

CYP1B1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1545 **SWISS:** Q16678

Target: CYP1B1

Immunogen: KLH conjugated synthetic peptide derived from human CYP1B1: 441-543/543.

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 P450 1B1 is a key enzyme involved in the production of potentially carcinogenic estrogen metabolites and the activation of environmental carcinogens and is the predominant member of the CYP1 family expressed in normal breast tissue and breast cancer. Estrogen has been proposed to trigger breast cancer development via an initiating mechanism involving its metabolite, catechol estrogen (CE). CYP1B1 catalyzes the conversion of 17-beta-estradiol to the catechol estrogen metabolites 2-OH-E2 and 4-OH-E2 which have both been postulated to be involved in mammary carcinogenesis.
Genetic polymorphisms in CYP1B1 may play an important role in human prostate carcinogenesis as well. Polymorphism of the CYP1B1 gene at codon 432 (Val-->Leu) is associated with a change in catalytic function.

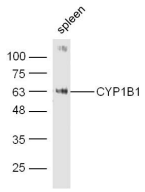
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Dog, Horse)

Predicted MW.: 61 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Spleen (Mouse) Lysate at 40 ug Primary: Anti-CYP1B1 (bs-12926R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 61 kD Observed band size: 63 kD

SELECTED CITATIONS

- **[IF=12.2]** Zi-Yan Hu. et al. AHR activation relieves deoxynivalenol-induced disruption of porcine intestinal epithelial barrier functions. J HAZARD MATER. 2024 Dec;480:136095 WB ;Porcine. 39395393
- **[IF=1.785]** Hongfang Li. et al. Effects of Xiaochaihu decoction on the expression of cytochrome P450s in rats. Exp Ther Med. 2021 Jun;21(6):1-9 WB ;Rat. 33850560