bs-10633R **[Primary Antibody]**

CYT 19 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 57412 **SWISS:** Q9HBK9

Target: CYT 19

Immunogen: KLH conjugated synthetic peptide derived from human CYT 19: 21-120/375.

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: Formation of methylated metabolites is a critical step in the metabolism of inorganic arsenic. Arsenite methyltransferase (cyt19) is localized to the cytoplasm and operates in the transfer of a methyl group from AdoMet to trivalent arsenicals producing methylated and dimethylated arsenicals. It methylates arsenite to form methylarsonate which is reduced to methylarsonite. Methylarsonite acts as a substrate and is converted into a much less toxic compound dimethylarsinate. cyt19 is highly expressed in liver. Inherited variation in cyt19 may contribute to variation in arsenic metabolism and possibly arsenic-dependent carcinogenesis in humans.

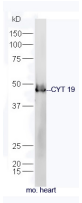
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Sheep, Cow, Chicken, Dog, Horse)

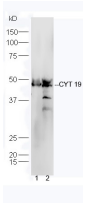
Predicted MW.: 42 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Protein: heart(mouse) lysate at 40ug; Primary: rabbit Anti-CYT 19 (bs-10633R) at 1:300; Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000; Predicted band size: 42 kD Observed band size: 42 kD



Sample: heart (Mouse) Lysate at 40 ug liver (Mouse) Lysate at 40 ug Primary: Anti-CYT 19 (bs-10633R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 48 kD