SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-CYT 19 antibody

Catalog Number: SL10633R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, (predicted: Human, Rat, Chicken, Dog, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	42kDa
Subcellular Location:	The nucleus
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. **Function:** Catalyzes the transfer of a methyl group from AdoMet to trivalent arsenicals producing methylated and dimethylated arsenicals. It methylates arsenite to form methylarsonate, Me-AsO(3)H(2), which is reduced by methylarsonate reductase to methylarsonite, Me-As(OH)2. Methylarsonite is also a substrate and it is converted into the much less toxic compound dimethylarsinate (cacodylate), Me(2)As(O)-OH.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Cytoplasm. **Similarity:** Belongs to the methyltransferase superfamily. **Database links:** **Entrez Gene:** 57412 Human **Entrez Gene:** 57344 Mouse **Entrez Gene:** 140925 Rat Omim: 611806 Human **SwissProt:** Q9HBK9 Human **SwissProt:** Q91WU5 Mouse **SwissProt:** Q8VHT6 Rat **Unigene:** 720370 Human **Unigene:** 28566 Mouse **Unigene:** 95453 Rat

[VALIDATION IMAGES]

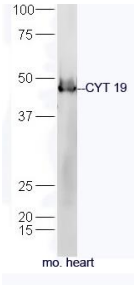


Figure 1. Protein: heart(mouse) lysate at 40ug; Primary: rabbit Anti-CYT 19 (SL10633R) at 1:300; Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000; Predicted band size: 42 kD Observed band size: 42 kD

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