

Anti-CYT 19 Polyclonal Antibody

Product Details

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| Ig Type: | IgG |
| Reactivity: | Mouse (predicted:Human,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep) |
| Molecular Weight: | Theoretical: 42 kDa. Actual: 42 kDa. |
| Purification: | Protein A purified |

Applications

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| Verified Activity: | 1. Sample: heart (Mouse) Lysate at 40 µg liver (Mouse) Lysate at 40 µg Primary: Anti-CYT 19 (TMAB-04920) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 48 kD |
| | 2. Protein: Heart (Mouse) lysate at 40 µg; Primary: rabbit Anti-CYT 19 (TMAB-04920) at 1:300; Secondary: HRP conjugated Goat-Anti-rabbit IgG at 1: 5000; Predicted band size: 42 kD Observed band size: 42 kD |
| Application: | WB |
| Recommended | WB: 1:500-2000 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human CYT 19 |
| Antigen Species: | Human |
| Gene ID: | 57412 |
| Uniprot ID: | Q9HBK9 |

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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