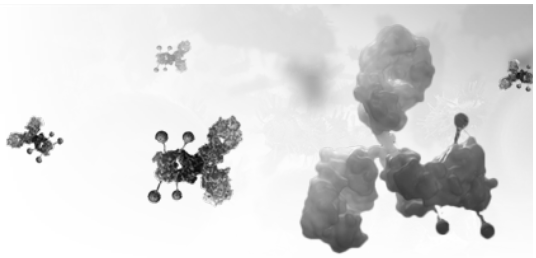

# Mouse anti-Human CYP46A1 monoclonal antibody, clone 3C6 (CABT-B10058)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Immunogen** | CYP46A1 (NP_006659, 201 a.a. ~ 301 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Isotype** | IgG1 |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | 3C6 |
| **Conjugate** | Unconjugated |
| **Applications** | WB,IP,sELISA,ELISA |
| **Sequence Similarities** | TSMLLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQLREVRESIRFLRQVGRDWVQRRREALKRGEEVPADILTQILKAEEGAQDDEGLLDNFVTFF* |
| **Format** | Liquid |
| **Size** | 100 µg |
| **Buffer** | In 1x PBS, pH 7.2 |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## BACKGROUND

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|---|---|
| **Introduction** | This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in |

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| | |
|---|---|
| | drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein is expressed in the brain, where it converts cholesterol to 24S-hydroxycholesterol. While cholesterol cannot pass the blood-brain barrier, 24S-hydroxycholesterol can be secreted in the brain into the circulation to be returned to the liver for catabolism. [provided by RefSeq, Jul 2008] |
| **Keywords** | CYP46A1; cytochrome P450, family 46, subfamily A, polypeptide 1; CP46; CYP46; cholesterol 24-hydroxylase; CH24H; cytochrome P450 46A1; cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase); |

# GENE INFORMATION

| | |
|---|---|
| **Entrez Gene ID** | 10858 |
| **UniProt ID** | Q9Y6A2 |
| **Pathway** | Bile acid and bile salt metabolism, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem |
| **Function** | cholesterol 24-hydroxylase activity; electron carrier activity; heme binding; metal ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid hydroxylase activity |

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