



Anti-PPP3CC monoclonal antibody (DCABH-13025)

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

PRODUCT INFORMATION

Antigen Description

Calmodulin-dependent protein phosphatase, calcineurin, is involved in a wide range of biologic activities, acting as a Ca^{2+} -dependent modifier of phosphorylation status. In testis, the motility of the sperm is thought to be controlled by cAMP-dependent phosphorylation and a unique form of calcineurin appears to be associated with the flagellum. The calcineurin holoenzyme is composed of catalytic and regulatory subunits of 60 and 18 kD, respectively. At least 3 genes, calcineurin A-alpha (CALNA1; MIM 114105), calcineurin A-beta (CALNA2; MIM 114106), and calcineurin A-gamma (CALNA3), have been cloned for the catalytic subunit. These genes have been identified in humans, mice, and rats, and are highly conserved between species (90 to 95% amino acid identity).

| | |
|---------------------------|--|
| Immunogen | A synthetic peptide of human PPP3CC is used for rabbit immunization. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Protein A |
| Conjugate | Unconjugated |
| Applications | Western Blot (Transfected lysate); ELISA |
| Buffer | In 1x PBS, pH 7.4 |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

| | |
|---------------------|--|
| Gene Name | PPP3CC protein phosphatase 3, catalytic subunit, gamma isozyme [Homo sapiens] |
| Official Symbol | PPP3CC |
| Synonyms | PPP3CC; protein phosphatase 3, catalytic subunit, gamma isozyme; protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform , protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform (calcineurin A gamma); serine/threonine-protein phosphatase 2B catalytic subunit gamma isoform; calcineurin A gamma; CALNA3; PP2Bgamma; protein phosphatase 2B; catalytic subunit; gamma isoform; CAM-PRP catalytic subunit; calcineurin, testis-specific catalytic subunit; calmodulin-dependent calcineurin A subunit gamma isoform; protein phosphatase 2B, catalytic subunit, gamma isoform; protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform; CNA3; |
| Entrez Gene ID | 5533 |
| Protein Refseq | NP_001230903 |
| UniProt ID | P48454 |
| Chromosome Location | 8p21.3 |
| Pathway | Activation of BAD and translocation to mitochondria, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; |
| Function | calmodulin binding; hydrolase activity; metal ion binding; phosphoprotein phosphatase activity; |