

phosphoregulation database

A

General Information

PhosphoregID: C6PP82

MGID: MGID:104872
KEGG: mmu:19047
FANTOM: E430007K21
ENSEMBL: ENSMUSG00000004455
Expression data (GNF): E430007K21
Experimentally localized clone (FANTOM): E430007K21

Mus musculus
Ppp1cc: protein phosphatase 1, catalytic subunit, gamma isoform
Synonyms: *dis2mt*, *PP1*, *PP1C gamma*, *PP1C gamma 1*, *PP1C gamma 2*
Classification:
Phosphatase-like->Protein phosphatases->Serine-threonine phosphatases->PPP phosphatases
Process->Focal adhesion

Subcellular Location

Nuclear:Nucleolus
Mitotic structures::Mitotic spindle
Nuclear::Nuclear Speckles
Cytoplasmic
Membrane Associated::Cytoplasmic Puncta

Subcellular Predictions

Cytoplasmic (100%)
Cytoplasmic (3) Proteome Analyst
Sublocv3.0

Subcellular Location Data

Experimental Data
Nuclear::Nuclear Speckles
Cytoplasmic
Membrane Associated::Cytoplasmic Puncta

Literature Data

Nuclear::Nucleolus
Mitotic structures::Mitotic spindle
Differential subcellular localization of protein phosphatase-1 alpha, gamma1, and delta isoforms during both interphase and mitosis in mammalian cells.
Andressen PR, Lacroix FB, Villa-Moruzzi E, Margolis RL
J Cell Biol. 1998 Jun 1;141(S):1207-15.
2005-01-20

PMID
9606212

HeLa cells, 100X

N-terminal myc, Cy3 channel
[Thumbnail] [All Images]

Protein Sequence

323 aa
>C6PP82 Ppp1cc: protein phosphatase 1, catalytic subunit, gamma isoform
MADIDKINIDSIITQRLLEVGSGKPGQVQLQENIRGLCKSRIFLQSP
ILLELEAPLKIQGIHQYDILLRLFEYGGFPPESNYLFLGYDVGKQK
LBTICLLAYKIRYPENFELRGNEHCASINRILYGFYDECKRRYNIKLVK
PFDDCNCLCTAAIVDEKIFPCCHGSLSPDLGMEGLQIRIMRPFVDVQGL
LCDLLRSDDPKDVLQWGENDRGVFFTPSADYVAFPLRHKDLILLQRAHQV
VEDGVFFPAKQLVTLPSANVYCGFEDNAGAMMSVDETLMSFQLKPAE
KKKKNATRPVTPRGMITKQAKK

References

interacts_with Hsp90: tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide in Human. (MINT: P36873)
interacts_with Trp53bp2: transformation related protein 53 binding protein 2 in Human. (MINT: P36873)
interacts_with Rplk3: receptor-interacting serine-threonine kinase 3 in Human. (MINT: P36873)
interacts_with Ppp19b: protein phosphatase 1, regulatory subunit 9b in Rat. (BIND: 130595)
interacts_with Ppp19b: protein phosphatase 1, regulatory subunit 9b in Rat. (BIND: 130605)
interacts_with Ppp19a: protein phosphatase 1, regulatory (inhibitor) subunit 9A in Rat. (BIND: 130599)
interacts_with Ppp19a: protein phosphatase 1, regulatory (inhibitor) subunit 9A in Rat. (BIND: 130603)
interacts_with Map3k3: mitogen-activated protein kinase kinase kinase 3 in Human. (MINT: P36873)
interacts_with Ibbk: inhibitor of kappab kinase gamma in Human. (MINT: P36873)
interacts_with Gmr5: glutamate receptor, metabotropic 5 in Rat. (BIND: 149192)
interacts_with Gmr1: glutamate receptor, metabotropic 1 in Rat. (BIND: 149191)
interacts_with Gmr1: glutamate receptor, metabotropic 1 in Rat. (BIND: 149193)

History

Entry created: 2004-11-15
Last update: 2005-01-21

Comments, additions, or corrections? Please email a.forrest@imb.uq.edu.au

Advanced Search

Protein ID (MGID, ENSEMBL or FANTOM ID):

B

Protein classification:

Pathways:

Subcellular location:

Tissues:

Functional description:

Search Clear

Enter multiple terms, delimited by a comma or space

Ctrl-click or Function-click to select multiple terms

- Tyrosine protein kinases
- Receptor tyrosine kinases
- DDR
- EGFR
- EPH
- FGFR

Ctrl-click or Function-click to select multiple terms

PATHWAYS
Cell cycle
Mitogen-activated protein kinase pathway
Adherens junction
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS)

Ctrl-click or Function-click to select multiple terms

-NUCLEAR-
Nuclear
Nuclear:Nucleolus
Nuclear:Nuclear Speckles
Nuclear:Nuclear Envelope
-MEMBRANE ASSOCIATED-

Ctrl-click or Function-click to select multiple terms

Spleen
Stomach
Substantia nigra
Testis
Thymus
Thyroid
Tonsil

SCL Image Data

Protein ID	Functional Description	Location	Representative Image
CEPK428	Csnk1g1: casein kinase 1, gamma 1	Cytoplasmic, Membrane Associated::Plasma Membrane-Like	
C6PP81	Ssh1: slingshot 1	Cytoplasmic::Cytoskeleton, Membrane Associated::Plasma Membrane-Like, Membrane Associated::Reticular::ER-like	
CEPK383	Ephb6: Eph receptor B6	Membrane Associated::Plasma Membrane-Like	
CEPK28	Prkg2: protein kinase, cGMP-dependent, type II	Membrane Associated::Plasma Membrane-Like, Cytoplasmic	
CEPK272	Pak1: p21 (CDKN1A)-activated kinase 1	Membrane Associated::Plasma Membrane-Like, Cytoplasmic	
CEPP75	Mtmr9: myotubularin related protein 9	Membrane Associated::Plasma Membrane-Like, Cytoplasmic	
CEPK150	Prkon: protein kinase C, nu	Membrane Associated::Plasma Membrane-Like, Cytoplasmic, Membrane Associated::Cytoplasmic Puncta	
CEPK149	Prkd2: Protein kinase C, D2 type	Membrane Associated::Plasma Membrane-Like, Cytoplasmic, Membrane Associated::Golgi-Like	
CEPK119	4921509C19Rik: hypothetical serine/threonine protein kinase	Membrane Associated::Plasma Membrane-Like, Cytoplasmic::Cytoskeleton::Microtubules	