

Involvement of cyclic nucleotide-dependent protein kinases in the circadian responses to light in the suprachiasmatic nucleus

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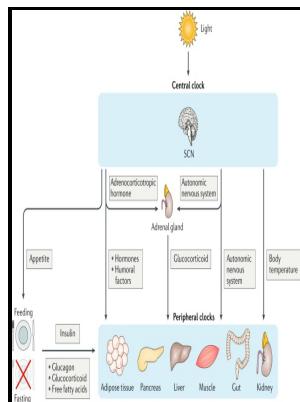
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Involvement of cyclic nucleotide-dependent protein kinases in the circadian responses to light in the suprachiasmatic nucleus

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Effects of the Isoquinolinesulfonamide H

Taylor, Kelly Umstott Hall, Gallia G.

Involvement of cyclic nucleotide

Western blot analysis of extracts from untreated cells using an anti-Flag antibody detected two bands, a major 46-kDa band and a minor 50-kDa band Fig. A and B, CV-1 cells A or HEK293 cells B were transiently transfected with cGKI or without Neo pCMV. The cAKs and the cGKs are highly homologous protein kinase families with similar substrate specificities.

Cyclic AMP

Once released, the C subunit can phosphorylate cytoplasmic substrates, and because of its small size 40 kDa , it can also passively diffuse through the nuclear pores into the nucleus 29. In contrast to wild type cGKII, the cGKIIg2A mutant was localized diffusely in the cytoplasm Fig. Similar results were obtained in HEK293 cells, COS-1 cells, and CV-1 cells, suggesting that the restricted cytoplasmic localization of cGKIB was common in mammalian cell lines.

Role of cyclic nucleotide

When assaying cGKIB activity, protein kinase inhibitor PKI peptide 1 mM was added to all tubes. To correct the deletion in pCMV. Extracts from cGKIB- and cAKII-transfected cells possess similar levels of cGKIB and cAKII protein by quantitative Western blotting using purified proteins as standards data not shown.

Roles of protein kinases in neurotransmitter responses in *Xenopus* oocytes injected with rat brain mRNA — Kyushu University

The two nucleotides 1672 and 1673 deleted in mcGKIb3D but present in mcGKI2. Since the cGKs and the cAKs are highly homologous protein kinase families that possess similar substrate specificities, many questions remain regarding the unique roles these kinases may play in cells that coexpress cAK and cGK isoforms.

Involve ment of cyclic nucleotide-dependent protein kinases in cyclic AMP-mediated vasorelaxation

As reported previously, the catalytic C subunit of cAKII translocated to the nucleus following activation by 8-bromo-cyclic AMP. Staining of transfected CV-1 cells with the anticGMP-PK CT antibody revealed diffuse, cytoplasmic immunofluorescence Fig. Prior to examination by fluorescence microscopy, cells were washed four times for 2 min in wash buffer and twice for 2 min in PBS.

Roles of protein kinases in neurotransmitter responses in *Xenopus* oocytes injected with rat brain mRNA — Kyushu University

Fractions were denatured in SDS-PAGE buffer at 95 °C for 5 min, resolved on 10% SDS-PAGE gels, and transferred to 0. These data corroborate the cytoplasmic restriction of active full-length cGKIb and strongly suggest that cGKIb is restricted to the cytoplasm because of its large size. All plates received HCG-luciferase 0.

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