Importin α and β – Nuclear import factors

Importin α and β:
- essential for nuclear protein import
- belong to a separate class of Ran-GTP binding proteins.
- Importin α binds directly to the nuclear localization signal (NLS) of substrates
- Importin β binds the α-NLS complex or other adaptors to mediate the uptake through the nuclear pore.

Jena Bioscience GmbH offers active Importin α and β suitable for
- in vitro nuclear import assays
- nucleocytoplasmic transport pathways regulation under different cellular conditions
- characterization of the auto-inhibitory sequence of importin α
- interaction studies with importin β or the importin α/β heterodimer

Simplified illustration of the transport mechanism of importin α and β into the nucleus

References: