Three strategies for sorting of proteins to the appropriate compartment.

In all cases, a “sorting signal” is incorporated into the primary structure of the “nascent polypeptide”.

This sorting signal is often cleaved after transport.

Signal Sequences and Signal Patches

[Diagram showing signal sequences and signal patches]
All macromolecules that pass into / out of the nucleus must pass through a nuclear pore complex.
TEM Images of Nuclear Pore Complexes

SEM image of the nucleoplasmic surface of the inner membrane

Figure 12-10 Molecular Biology of the Cell (© Garland Science 2008)

Figure 12-11 Molecular Biology of the Cell (© Garland Science 2008)