

# CD63

**CD63** is a transmembrane protein of the tetraspanin family commonly found in the membrane of [extracellular vesicles](#), particularly exosomes. It is widely used as a **biomarker for EV identification and isolation**.

## Structure and Function

- Four transmembrane domains
- Localized in late endosomes, lysosomes, and exosomes
- Involved in:
  - Vesicle formation and trafficking
  - Protein sorting
  - Cell adhesion and immune modulation

## In EV Engineering

CD63 is often used as a **molecular scaffold** for displaying functional tags or facilitating **selective cargo loading** in synthetic or engineered EVs, such as in the [E-NoMi system](#).

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