

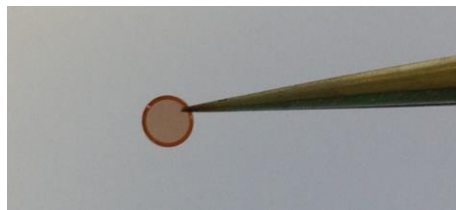
## Exosome-TEM-easy kit

- Name:** Exosome preparation kit for transmission electron microscopy imaging
- Cat. #:** P130
- Application:** This kit is for preparation of exosome samples for transmission electron microscopy imaging assay. This product is for research use only.
- Product description:** This is an easy-to-use kit helping you to prepare exosome samples for transmission electron microscope imaging. This kit contains all reagents and material for the experiment. Using this kit, you will get good quality TEM images of exosome structure.
- The exosome purity and density is important for TEM assay. We recommend to use our PureExo® kits to isolate exosomes before using this kit.
- Kits content:**
1. Formvar-carbon coated EM mesh 400 grid X 10
  2. Wash buffer (1.5 mL)
  3. EM solution (100 µL)
- Shipping / Storage:** Ship and store at room temperature, for up to 12 months. Avoid light.
- Other required materials:**
1. Parafilm
  2. Forceps (Dumont NO. 5), clean
  3. **Whatman Grade 1** Qualitative Filter Paper (available from VWR, Sigma, or FisherScientific)
  4. Transmission electron microscope (TEM).

Formvar-carbon coated EM mesh 400 grid:



This is coated side, which has an obvious shining edge. And the coated side is used to attach exosomes.



Use fine tip forceps to hand the grid carefully.

## Protocol

1. Resuspend freshly isolated exosome.
2. Deposit 2 to 3 drops of exosome suspension (5-10  $\mu$ L each) on a clean parafilm. Using fine tip forceps, float a Formvar-carbon coated EM grid on one drop of exosome with the **coated side facing the suspension (down)**. Let the grid membranes absorb exosomes for 10 minutes in a dry environment.
3. Deposit 20  $\mu$ L **wash buffer** drops on a clean parafilm. Using fine tip forceps, transfer the grids (**coated side down**) to the wash buffer drops, and let the grid stand in the wash buffer drops for 30 seconds to wash.
4. Repeat step 3 (wash twice).
5. Deposit 10  $\mu$ L drops of **EM solution** on a clean parafilm. Transfer one grid (**coated side down**) to one drop and let it stand for 10 minutes. Avoid light.
6. Wash twice as described in step 3.
7. Transfer the grids to a **Whatman Grade 1** Filter Paper with the **coated side up**. Air dry at room temperature for overnight in dark place.
8. Scan exosomes under TEM. The grids can be store under dry condition for up to 3 months.

### Customer also buy

Cat.#	Kit Name	Application	Protein Status	Minute
P501	Total protein kit	cells → total protein	denatured / native	1
P502	Total protein kit	tissues → total protein	denatured / native	1
P503	Membrane protein kit	cells / tissues → membrane protein	native & detergent-free	40
P504	Nuclear protein kit	cells / tissues → nuclear & cytosol	native	6
P505	Detergent-free kit	cells → total protein	denatured / native	5
P506	Detergent-free kit	Tissues → total protein	denatured / native	5
P507	Mitochondria kit	cells / tissues → mitochondria	native & detergent-free	25
P508	Plant total protein	plant tissues → total protein	denatured / native	5
P510	Plant detergent-free	plant tissues → total protein	native	6
P511	Plant chloroplast kit	plant tissues → intact chloroplast		5
P512	Bacteria total protein	bacteria → total protein	denatured	2
P513	Nuclear envelope kit	cells → nuclear envelope	native	40
P514	Histone / DNA binding protein	cells → Histone / DNA binding Pr.	denatured	10
P515	Thick cell wall microbes protein	microbes → total protein	denatured / native	10
P519	Gel slice protein recovery	gel slice → protein		10
P522	Adipose protein kit	adipose → protein	native / denatured	20
P523	Adipose fractionation	adipose → water soluble/insoluble	native	40