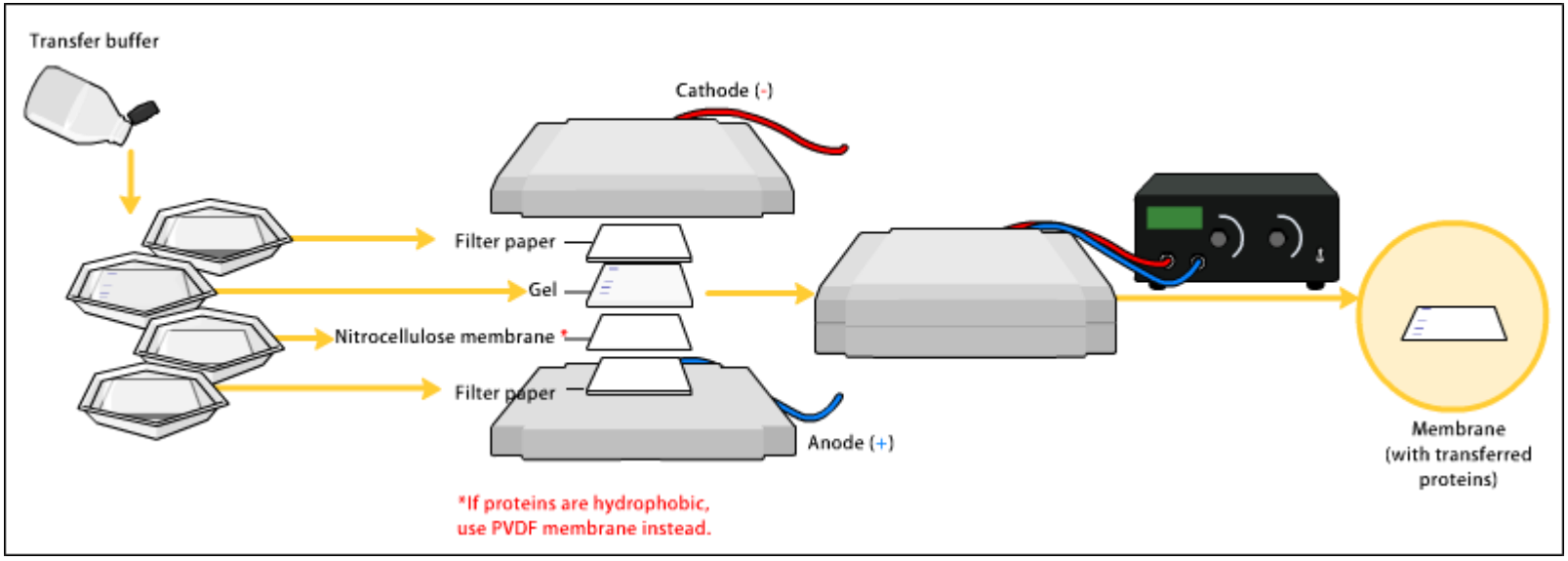
Western Blotting



Western blot:

-Is used to identify specific proteins, based on their ability to bind to antibodies.

-sometimes called the protein immunoblot

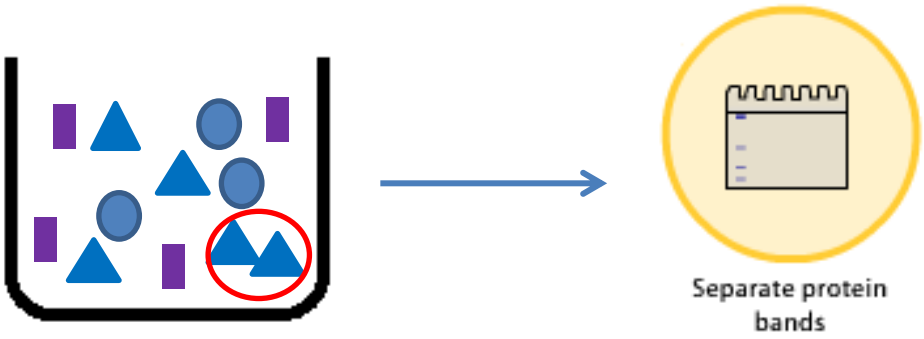
Principle:

1- Proteins are separated from each other based on their size using SDS-PAGE.

2- Antibodies are used to detect the protein of interest.

3-A substrate that reacts with an enzyme is used to view the antibody/protein complex.

Western Blot Steps

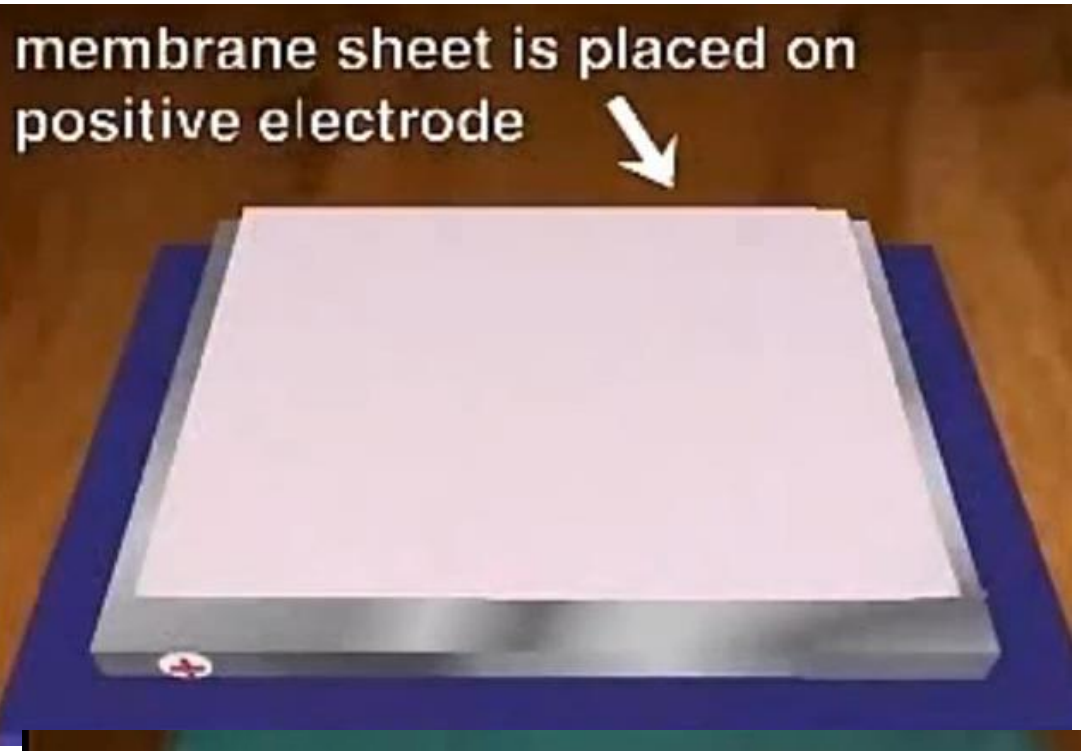


Protein sample **SDS-PAGE**

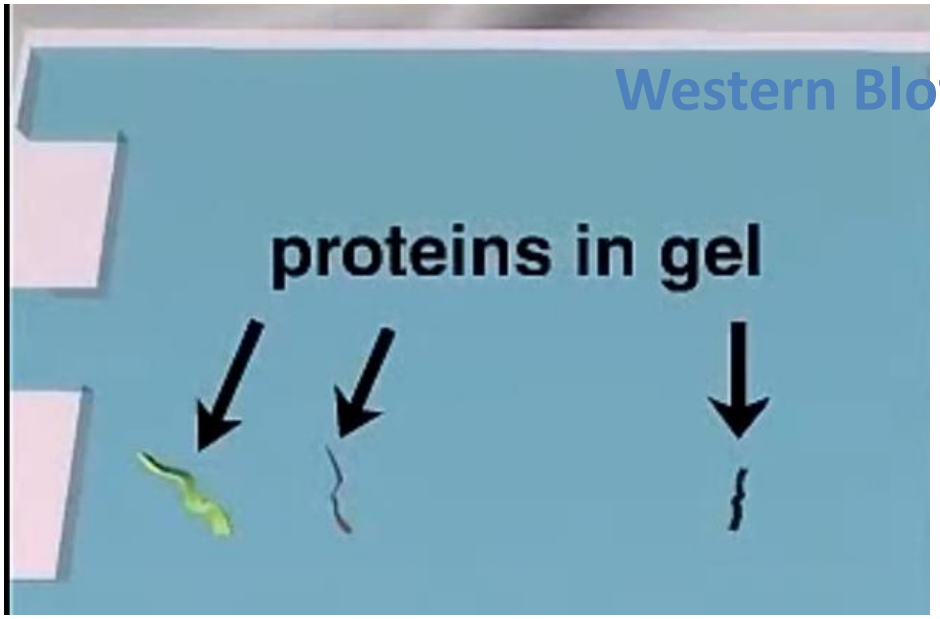
To confirm the separation of the sample use:
1-Replica of the gel and stain it as usual [with Coomassie brilliant blue] .
2-prestained marker.

Western Blot Steps

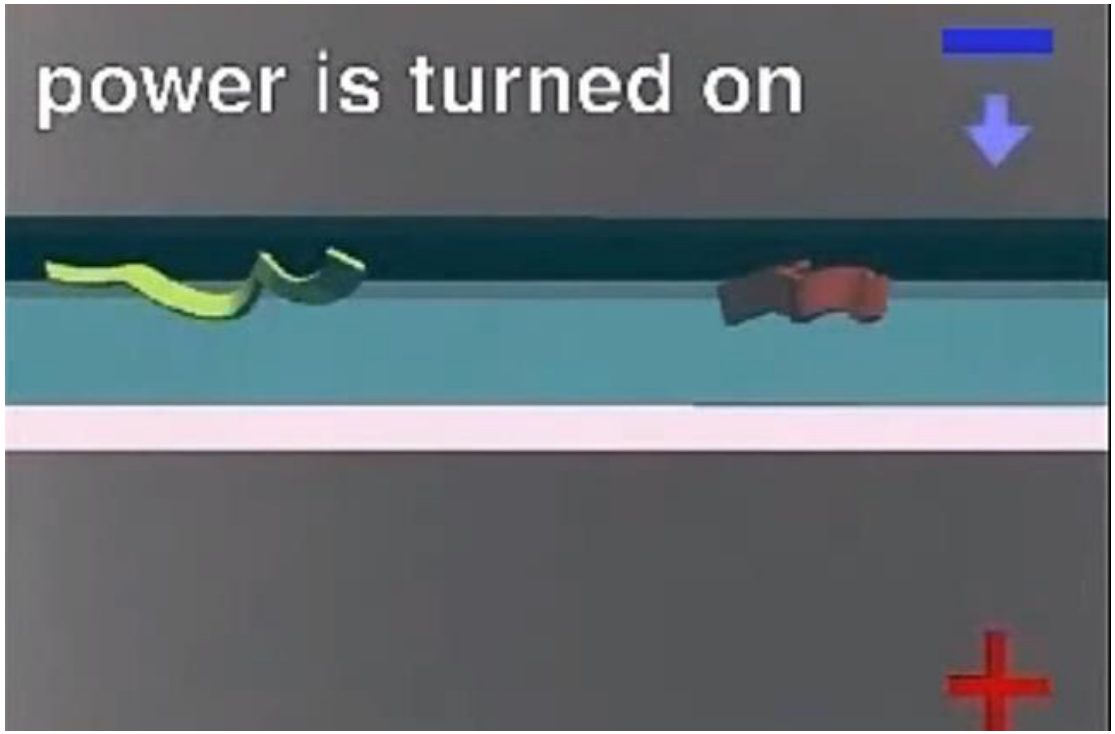
Western Blot Steps



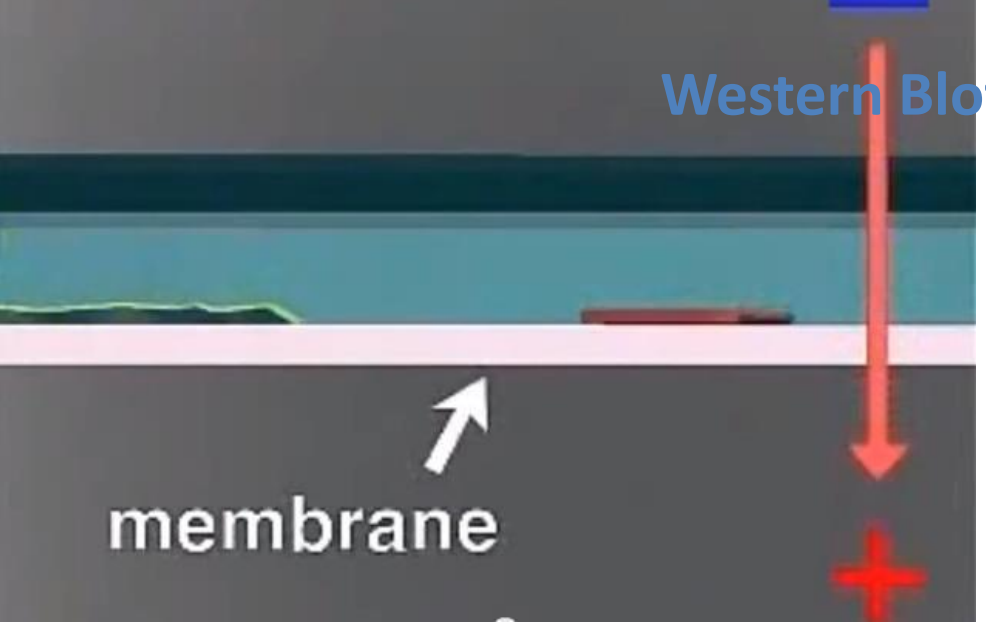
Western Blot Steps

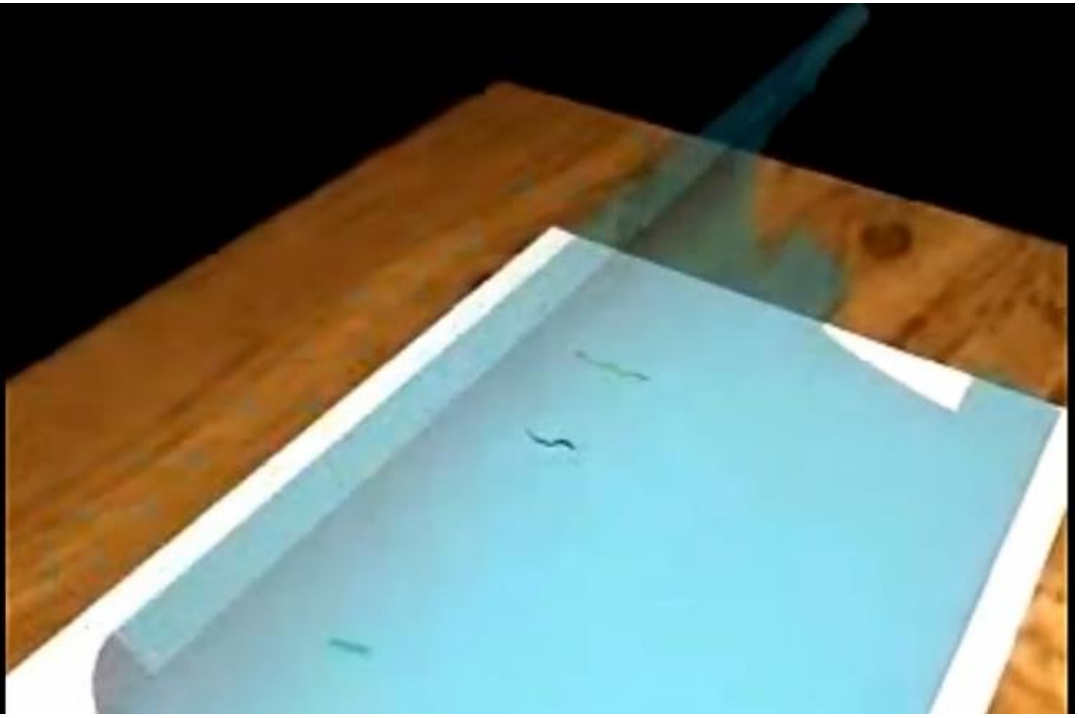


Western Blot Steps

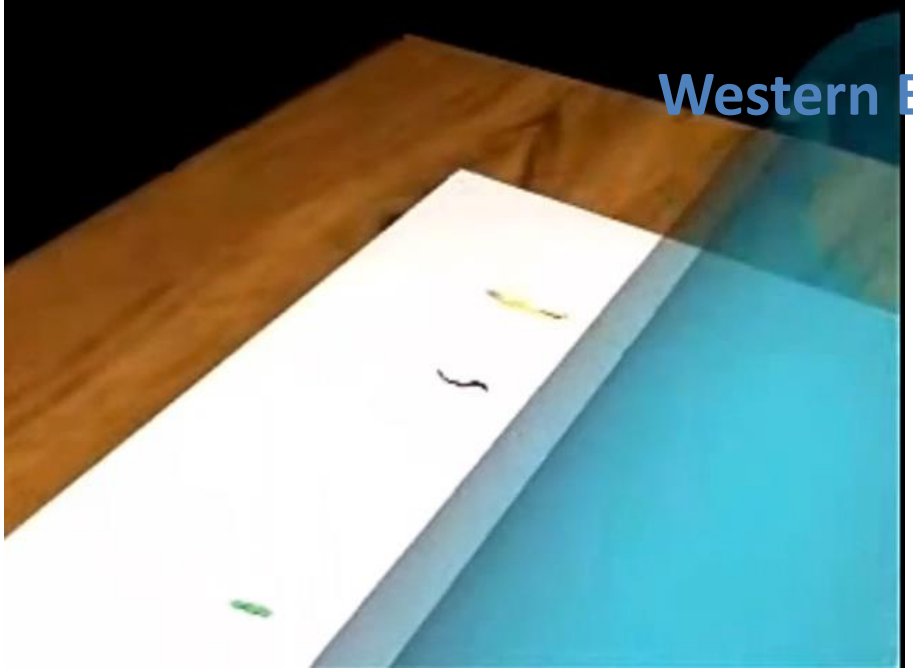


Western Blot Steps



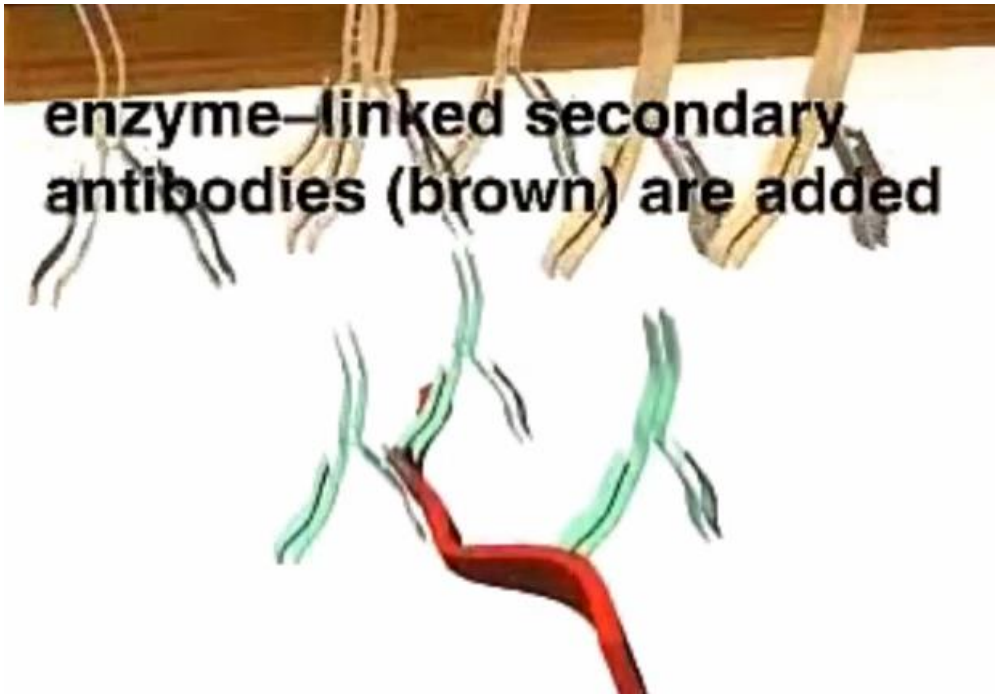


Western Blot Steps

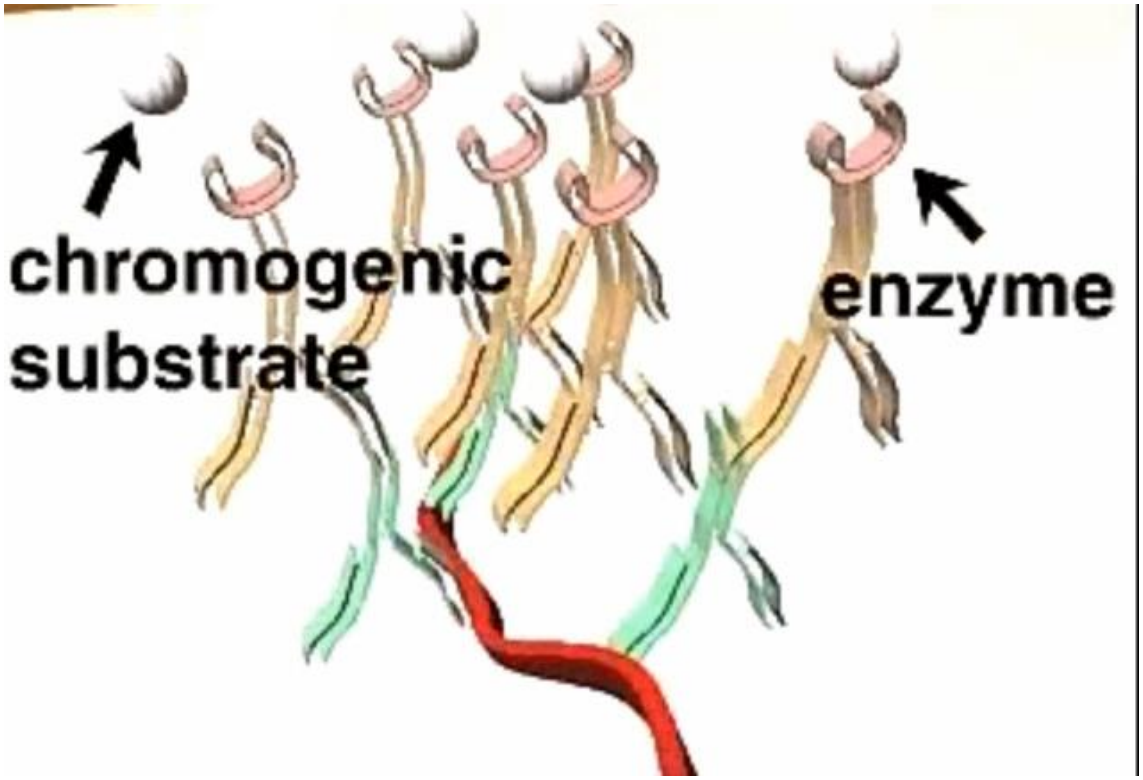


primary antibodies (green) are added

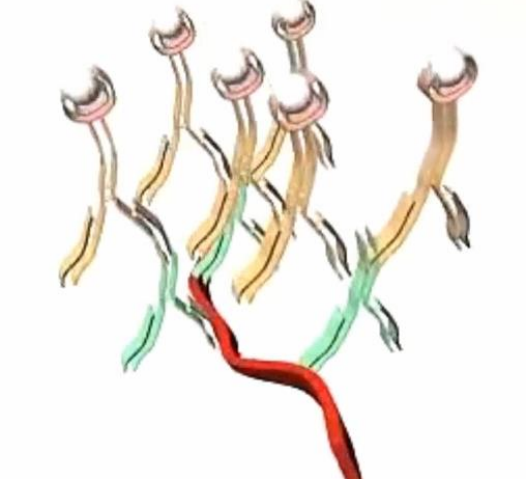
Western Blot Steps

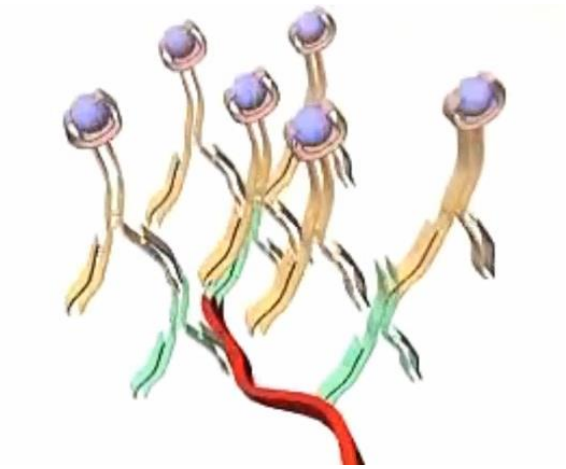


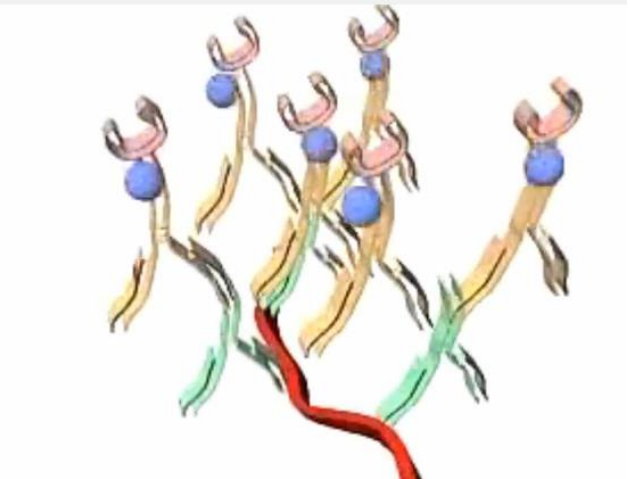
Western Blot Steps

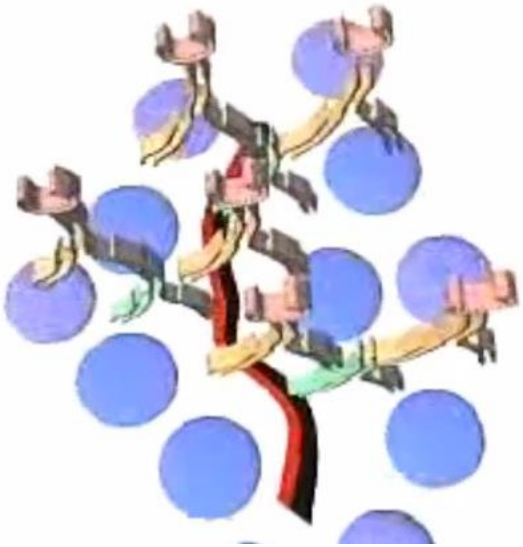


Western Blot Steps

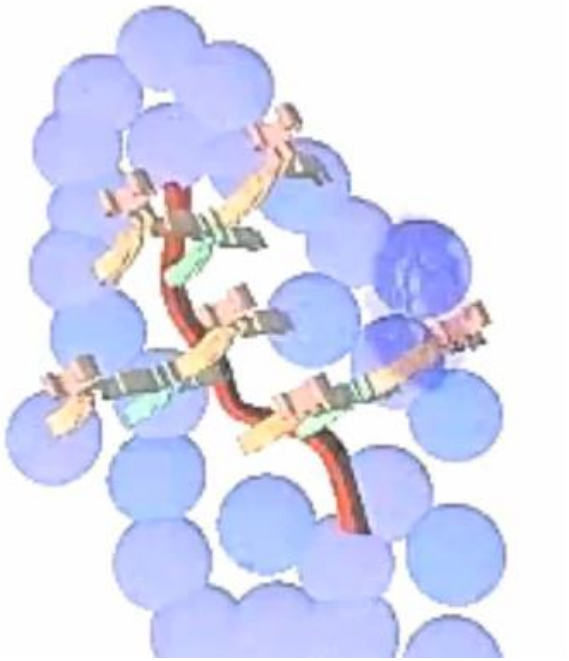




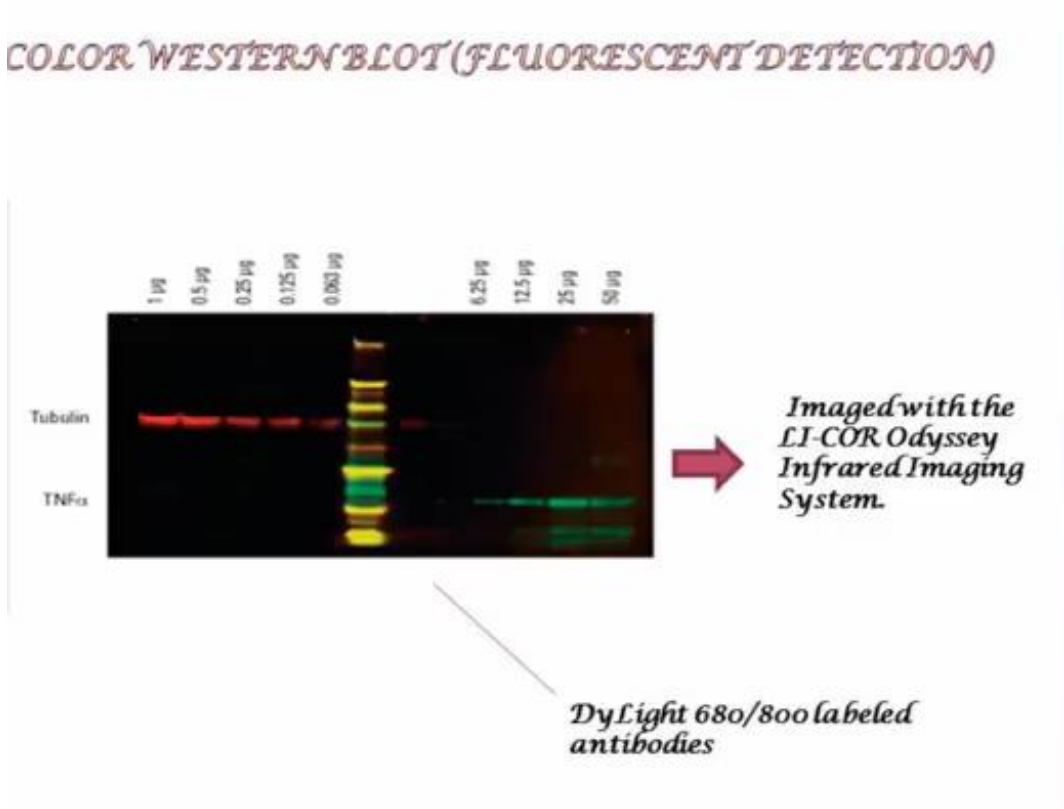




Western Blot Steps



Western Blot Steps



Western Blot Steps Summary