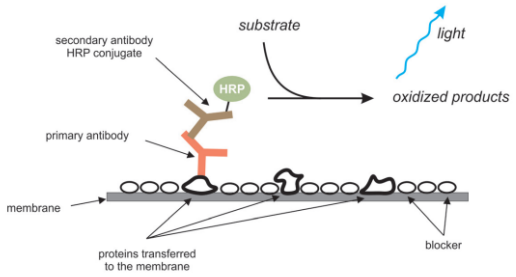
Glossy Plus HRP Substrate

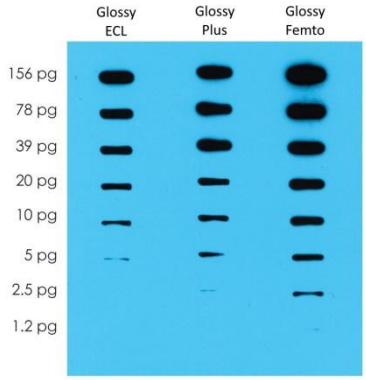
Western Blotting:

Western blotting is a protein analysis tool for a molecular biology and protein chemistry laboratory. The principle of chemiluminescent Western blotting is shown in Figure.



Overview of Glossy Plus HRP Substrate:

Nepenthe Glossy Plus HRP Substrate offers sensitivity and quantitative ability. Glossy Plus HRP Substrate produces a strong, long-lasting signal with extremely low background, perfect for detecting low abundance proteins and especially developed for CCD imaging.



Glossy Plus HRP Substrate provides **the largest dynamic range** of chemiluminescent substrates for most quantitative chemiluminescent Western experiments as it does not exhibit substrate depletion at high protein loads.

- Detect attomoles of protein per band
- Linear range of signal with respect to protein amount exceeds 3 orders of magnitude
- High signal to noise
- Image blots hours after substrate incubation
- Optimized for CCD imaging, and compatible with film detection

Short Protocol:

1. Prepare your protein blot
2. Block membrane for 1 hour at room temperature (RT)
3. Incubate blot with primary antibody for one hour at RT with gentle agitation
4. Wash blot:
   - 1 x quickly
   - 1 x 15 min, with 0.7 ml/cm2 membrane
   - 3 x 5 min, with at least 0.3 ml/cm2 membrane each time
5. Incubate blot with secondary antibody for one hour at RT with gentle agitation
6. Wash blot:
   - 3 x 5 min, with at least 0.3 ml/cm2 membrane each time
7. Mix Glossy Plus HRP components 1:1 to obtain 0.1 ml/cm2 and place on blot for 2 minutes
8. Drain excess reagent
9. Cover damp blot with plastic wrap and image with CCD camera or by exposure to X-ray film