

COVALIGHT[®]'S FAMILY

The Western Blot method is one of the most widely used methods in scientific research for the **detection and identification of proteins expression level** in a sample.

The revealing step with highly sensitive and stable detection reagents allows an optimal quantitative analysis of the proteins.

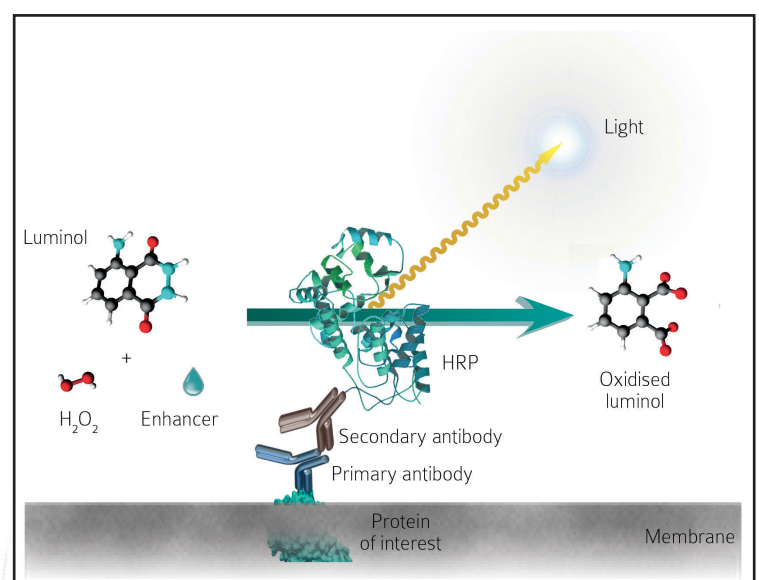
Covalight[®]'s family reagents are non-isotopic luminol-based chemiluminescence substrate, designed for the chemiluminescent detection of immobilized proteins and immobilized nucleic acids conjugated with horseradish peroxidase (HRP).

This wide range combines a **high sensitivity and a long-term signal** which makes **Covalight[®]'s family reagents the perfect choice for your Western and Dot Blot analysis.**

PRINCIPLE

Chemiluminescence is a chemical reaction that produces energy released in the form of light.

Indeed, in the presence of hydrogen peroxide (H₂O₂) and an enhancer, the horseradish peroxidase enzyme (HRP) coupled to the secondary antibody, catalyzes the oxidation of the substrate, such as Luminol, to an excited reaction product which emits light on spontaneous decay to a more stable form.

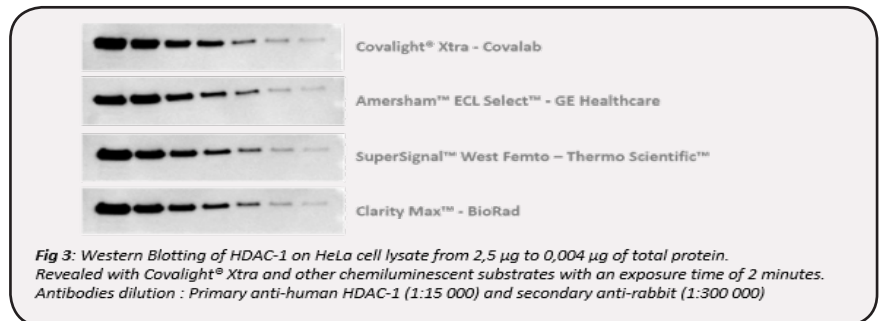
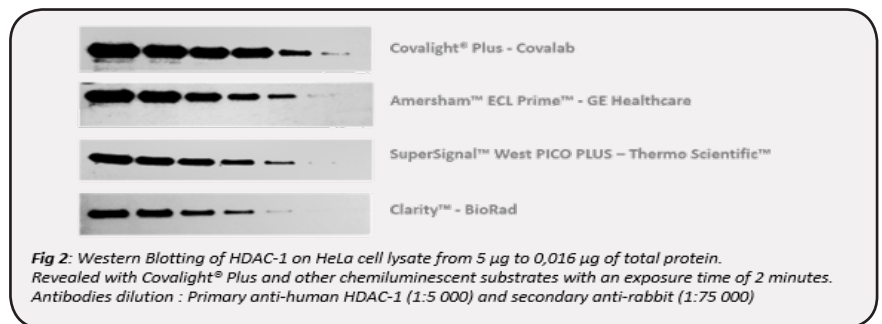
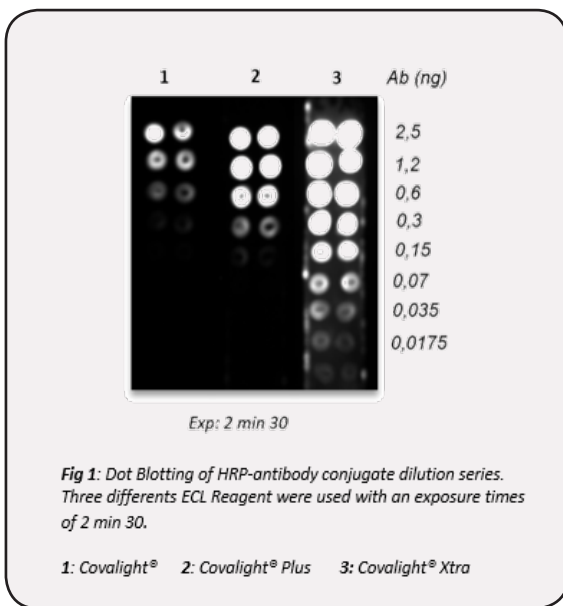


A COMPLETE RANGE MEETING ALL YOUR NEEDS



- **Ultra sensitive:** detects proteins quantities from Mid picogram to Low femtogram (10^{-15})
- **Durable signal for several hours** after incubation
- **Reduced antibody consumption:** fast and effective detection using highly diluted antibodies concentrations (*see Products table*)
- **Stable reagents** for 1 year at RT, except Covalight® at +4°C
- **Suitable solutions** for revelation with light-sensitive X-ray film or with CCD-based imaging

APPLICATIONS



PRODUCTS

Products	Detection Level	Signal Duration	Signal Intensity	Quantities	Antibodies Dilution (1mg/ml)	ID Covalab	Ref.
Covalight® ECL Reagent	Mid Picogram (10^{-12})	6h	Standard	250 ml Peroxide solution 15 ml Luminol-Enhancer solution	Primary Ab = 1:100 - 1:5 000 Secondary Ab = 1:1 000 - 1:15 000	opr0009	00006366
Covalight® Plus ECL Reagent	Mid Femtogram (10^{-14})	> 24h	High	125 ml Peroxide solution 125 ml Luminol-Enhancer solution	Primary Ab = 1:1000 - 1:15 000 Secondary Ab = 1:10 000 - 1:150 000	opr1102	00118073
Covalight® Xtra ECL Reagent	Low Femtogram (10^{-15})	8h	Extreme	50 ml Peroxide solution 50 ml Luminol-Enhancer solution	Primary Ab = 1:5 000 - 1:100 000 Secondary Ab = 1:10 000 - 1:500 000	opr1101	00118076