

NRF2(ARE) EMSA Kit, #GS-0031

Transcription factors (TFs) are a group of cellular proteins that control gene expression. Once a TF is activated, it binds to its corresponding cis-element within promoter regions and mediates the expression of its target gene. Electrophoretic Mobility Shift Assay (EMSA) is a commonly used method for monitoring the activation of a TF in vitro. Each Signosis' EMSA Kit is a ready-made kit including all of the reagents and transfer membranes. The included probe has been designed based the reported TF consensus sequence in well-known publications and can be used to detect the activity of a TF in human, mouse and rat samples.

Benefits:

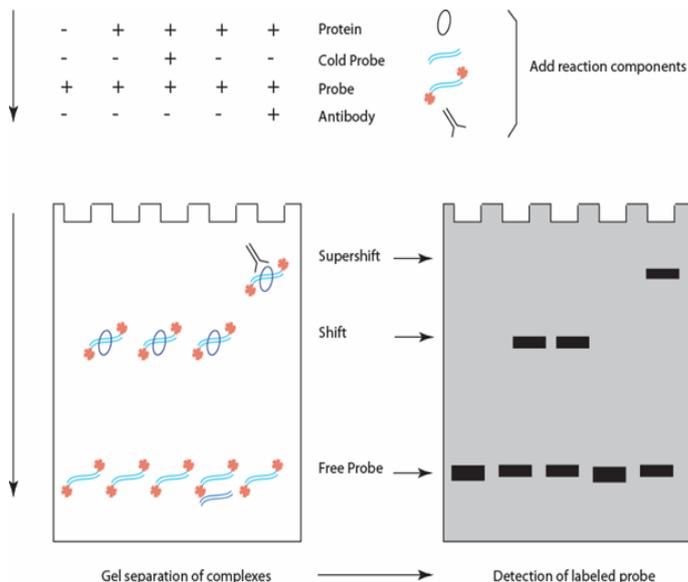
Isotope free - It is a chemiluminescent-based detection.

No probe preparation - The included probes are pre-labeled saving time.

Simple procedure - All of the reagents are including for this straightforward assay.

Principle

When one TF is activated, it binds to a biotin-labeled probe, which is designed based on the consensus binding sequence of the TF. When the formed complex is subjected to electrophoresis, it runs slower than the free probe, and can be easily distinguished. Two or more samples can be compared and differences can be determined by the density of the shifted band.



Data

