The RayBio Transcription Factor (TF) Activity Assay Kits are in vitro enzyme-linked immunosorbent assays for the semi-quantitative measurement of active transcription factors in nuclear extracts and cell lysates.

- Specific transcription factor-DNA binding assay
- Non-radioactive: perfect alternative to EMSA
- Simple: colorimetric ELISA-based protocol
- Rapid: 5 hour processing time
- High throughput: 96-well plate format

**How it works:** Double stranded oligonucleotides are coated onto a 96-well plate. The oligonucleotides specifically capture the target transcription factor contained in whole cell lysates or nuclear extracts after a short incubation. Subsequently, the primary antibody recognizes the target transcription factor-DNA complex in each well, and a HRP-conjugated secondary antibody is then used for detection. After washing away unbound antibody, signal is obtained with a colorimetric plate reader at 450 nm. The specificity of binding between the transcription factor and the DNA element can be further validated by control probes included in the kit: a specific competitive DNA probe and non-specific competitive DNA probe.
RayBio® Transcription Factor Activity Assays
ELISA-based detection of transcription factor transactivity

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<tr>
<th>CAT. NO.</th>
<th>TARGET NAME</th>
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**ALSO AVAILABLE:** RayBio® Nuclear Extraction Kit (Cat. No. NE-50). Using our simple protocol, isolate cytoplasmic and nuclear protein fractions from up to 50 cell or tissue samples. This kit is highly recommended for use with RayBio TF Activity Assays.

**KEEP LOOKING**
To further explore cellular pathways related to your transcription factor of interest, visit our interactive pathway maps to find additional assay kits.