

Over-Expression Cell Lysates

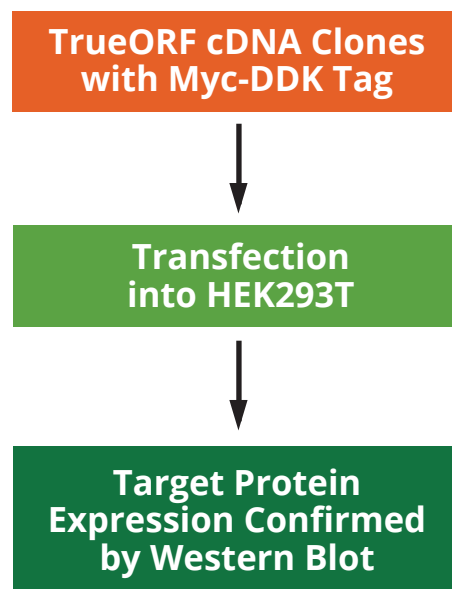
Validated Positive Controls for Western Blot & ELISA



Over-Expression Cell lysates are whole-cell lysates of HEK293T cells over-expressing a target protein where the expression of the target protein is confirmed by western blot.

Feature	Benefit
A comprehensive library of 20K over-expression lysates covering 80% of the human proteome; includes negative controls	One-stop-shop for all positive controls
Proteins expressed in human cells, preserving native protein structure	Suitable for antibody screening with a higher probability of detecting antibodies reacting with native epitopes
C-terminal tagged with Myc-DDK	Ideal for protein purification
Available in two formats: Frozen and lyophilized	Flexible options based on research needs, easy shipping
Protein suspended in non-SDS RIPA buffer	Suitable for functional assays, immunoprecipitation, protein-protein interaction studies. Also serve as positive control for antibody screening, western blot, ELISA

How are Over-Expression Lysates Made?



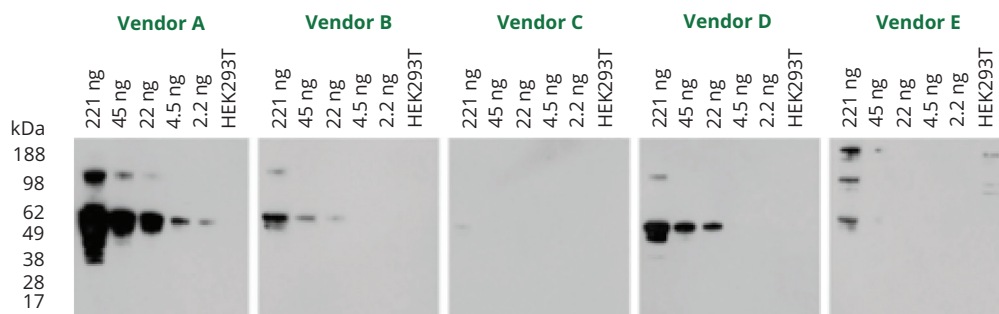
Customer Testimonial

"The Human Protein Atlas project adopted OriGene over-expression lysates and significantly increased our polyclonal antibody Western blot success rate. We are very happy with the results."

- Prof Mathias Uhlen, Royal Institute of Technology (KTH), Stockholm, Sweden

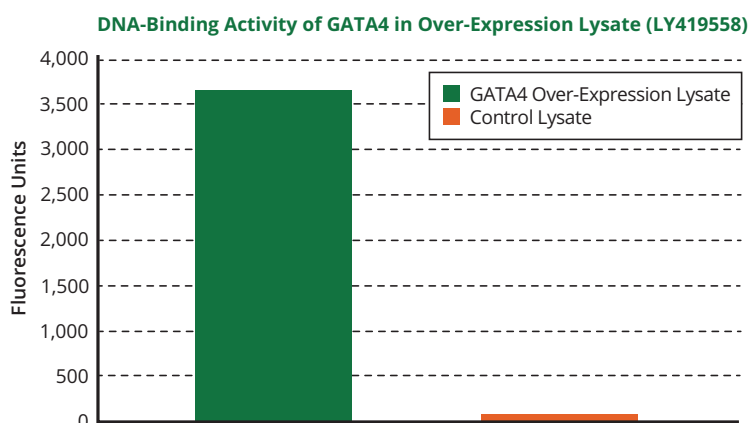
Over-Expression Performance Data

Application Data #1: Antibody Validation



Five commercial antibodies against human P53 evaluated in Western blot experiments with P53 over-expression cell lysate. P53 protein level in cell lysate was pre-determined using a purified GST-Myc-DDK standard. Lysate was serially diluted before SDS-PAGE and immunoblotting. Antibody quality and star rating is based on P53 protein detection level.

Application Data #2: Protein Activity Assay - GATA4 (LY419558)



DNA-binding activity of GATA4 was measured in OriGene's over-expression lysate LY419558 and a control lysate. Three microliters of each lysate was tested with a transcription factor binding assay utilizing GATA-specific DNA sequences. The high level of activity observed in the over-expression lysate compared to the control lysate demonstrates that the expressed GATA4 is biologically active in the lysate.

Control Cell Lysates

SKU	Description
LY500001	HEK293 cell lysate - no transient over-expression (negative control)
LY500002	Transient over-expression lysate of Myc-DDK-tGFP tags

Search for your over-expression lysate here:

www.origene.com/products/proteins/over-expression-lysates