# **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	Suitable for antibody screening with a higher
protein structure	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

## **Customer Testimonial**

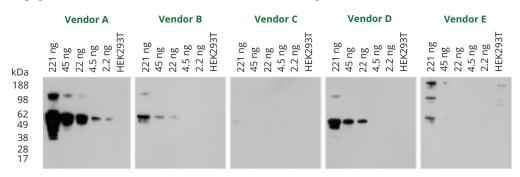
"The Human Protein Atlas project adopted OriGene over-expression lysates and significantly increased our polyclonal antibody Western blot success rate. We are very happy with the results."

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

Origene Technologies, Inc. 9620 Medical Drive, Suite 200 Rockville, MD, 20850 P: +1.301.340.3188

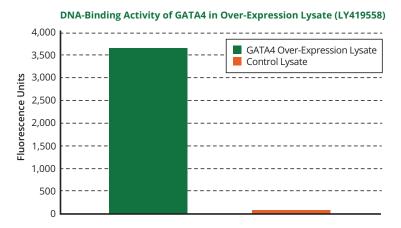


## **Application Data #1: Antibody Validation**



Five commercial antibodies against human P53 evaluated in Western blot experiments with P53 overexpression 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 lystate.

#### **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

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