

## JOT0112-1: Anti-P53 VHH antibody

<b>Clonality :</b>	Monoclonal
<b>Application :</b>	ELISA
<b>Reactivity :</b>	Human
<b>Gene :</b>	TP53
<b>Gene ID :</b>	P04637
<b>Uniprot ID :</b>	P04637
<b>Alternative Name :</b>	TP53, P53
<b>Isotype :</b>	Camelid VHH

### Description

Alpaca derived anti-p53 VHH single domain antibody (molecular weight: 14.6 kDa) with a 6\*His tag at its C-terminal, expressed in E. coli under conditions free from animal derived components.

This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms, which can regulate p53 transcriptional activity.

**Specificity:** p53, Tp53, p53 tumor suppressor

This is a product from [Jotbody](#), Hong Kong. This antibody is made available worldwide by ABEOMICS Inc.

### Product Info

<b>Amount :</b>	100 µg / 50 µg
<b>Purification :</b>	Affinity chromatography purified via Ni-charged resin. > 95% as determined by SDS-PAGE
<b>Content :</b>	1mg/mL Buffer 25 mM TAPS pH8.5, 500 mM NaCl, 5 mM EDTA, 0.09 % NaN <sub>3</sub>
<b>Storage condition :</b>	4°C; Do not freeze.

### Application Note

Positive controls: Positive ELISA detected in: p53  
Recommended dilutions :ELISA 1:1000-1:10000

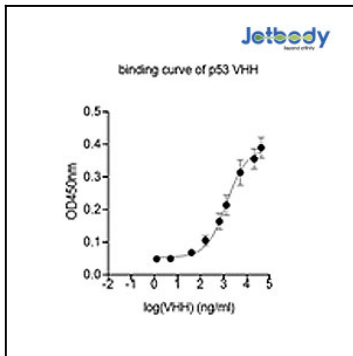


Figure 1: Indirect ELISA showing anti-p53 VHH antibody (JOT0122-1) binding to purified p53 protein. Plates were coated with 100ng/well purified protein and binding of JOT0122-1 assessed in serial dilution from 1.25ng/ml primary antibody in triplicate.