

Datasheet for ABIN361805

**anti-CDK5R1 antibody**

4 Images

1 Publication

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CDK5R1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDK5R1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC), Antibody Array (AA)

## Product Details

Immunogen:	Recombinant human full length p23 protein
Clone:	JJ6
Isotype:	IgG1
Specificity:	Detects ~23 kDa.
Cross-Reactivity:	Chicken, Guinea Pig, Human, Mouse, Rabbit, Saccharomyces cerevisiae
Purification:	Protein G Purified

## Target Details

Target:	CDK5R1
Alternative Name:	p23 ( <a href="#">CDK5R1 Products</a> )

## Target Details

Background:	<p>P23 is a highly conserved ubiquitous protein, known to have an important function as a cochaperone for the HSP90 chaperoning system (1). Studies have revealed that p23 is a small protein (18 to 25 kDa) with a simple structure (2, 3). p23 does not have any structural homology with any other known proteins (1). p23 was first discovered as a part of the HSP90-progesterone receptor complex along with HSP70, p54 and p50 (1). p23 is a phosphor-protein, which is highly acidic and has an aspartic acid-rich c-terminal domain (1). Numerous studies have found p23 to be associated with other client proteins like Fes tyrosine kinase (4), the heme regulated kinase HRI (5), hsf1 transcription factor (4), aryl hydrocarbon receptor (4), telomerase (6), and Hepadnavirus reverse transcriptase (7). In spite of several years of study, the exact functional significance of p23 is still not clear (8). p23 is thought to be involved in the adenosine triphosphate-mediated HSP90 binding of client proteins (8). Since many HSP90 client proteins are involved in oncogenic survival signaling, a recent study has concluded p23 to be a promising target in leukemic apoptosis (9). HSP90 and its co-chaperone p23 are certainly among the emerging anti-tumor targets in oncology.</p>
Gene ID:	10728
NCBI Accession:	<a href="#">NP_006592</a>
UniProt:	<a href="#">Q15185</a>
Pathways:	<a href="#">Stem Cell Maintenance</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## Application Details

Application Notes:	<ul style="list-style-type: none"><li>• WB (1:2000) IHC (1:100)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	0.5 µg/ml of ABIN361804 was sufficient for detection of p23 in 20 µg of heat shocked cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

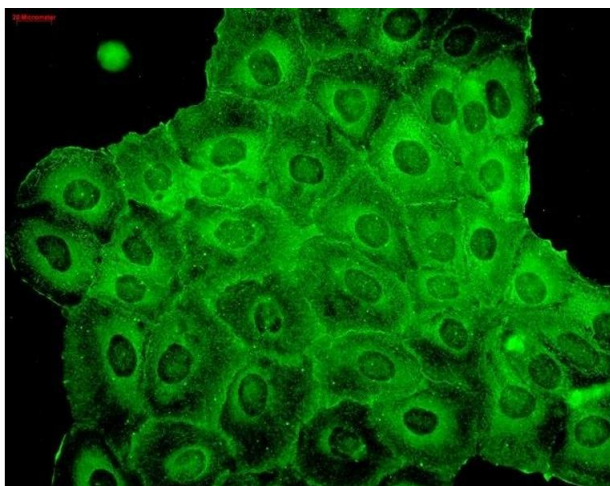
## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C

## Publications

Product cited in:	<p>Sun, Wei, Xiong, Wang, Xie, Wang, Yang, Wang, Lu, Liu, Wang: "Synaptic released zinc promotes tau hyperphosphorylation by inhibition of protein phosphatase 2A (PP2A)." in: <b>The Journal of biological chemistry</b>, Vol. 287, Issue 14, pp. 11174-82, (2012) (<a href="#">PubMed</a>).</p> <p>Chen, Xiong, Kong, Qu, Wang, Chen, Wang, Zhu: "Neuroglobin attenuates Alzheimer-like tau hyperphosphorylation by activating Akt signaling." in: <b>Journal of neurochemistry</b>, Vol. 120, Issue 1, pp. 157-64, (2011) (<a href="#">PubMed</a>).</p>
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## Images

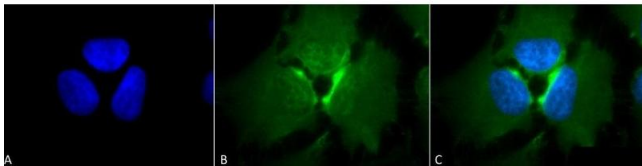


### Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 (ABIN361804 and ABIN361805). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100 % methanol for 10 minutes at -20 °C. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody (ABIN361804 and ABIN361805) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Uniform epidermal staining - some evidence of cell-cell borders.



**Image 2.** P23 (JJ6) human cell line mix copy.



### Immunocytochemistry

**Image 3.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 (ABIN361804 and ABIN361805). Tissue: Heat Shocked cervical cancer cells (HeLa). Species: Human. Fixation: 2 % Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody (ABIN361804 and ABIN361805) at 1:100 for 12 hours at 4 °C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-p23 Antibody. (C) Composite. Heat Shocked at 42 °C for 1h.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN361805.