

Datasheet for ABIN2486459

anti-CDK5R1 antibody (Alkaline Phosphatase (AP))[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	CDK5R1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDK5R1 antibody is conjugated to Alkaline Phosphatase (AP)
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 (CDK5R1 Products)

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:	NP_006592
UniProt:	Q15185
Pathways:	Stem Cell Maintenance , Regulation of Cell Size , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:2000) IHC (1:100)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	0.5 µg/ml of ABIN2486459 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

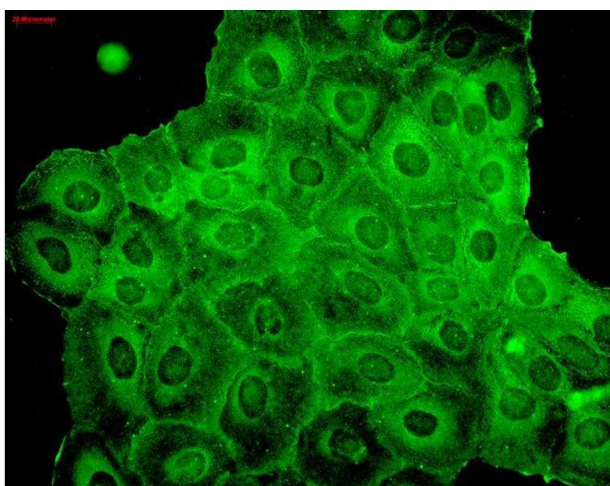
Handling

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

Handling

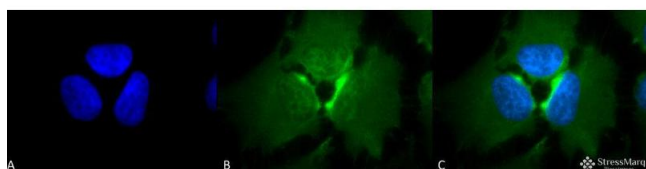
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



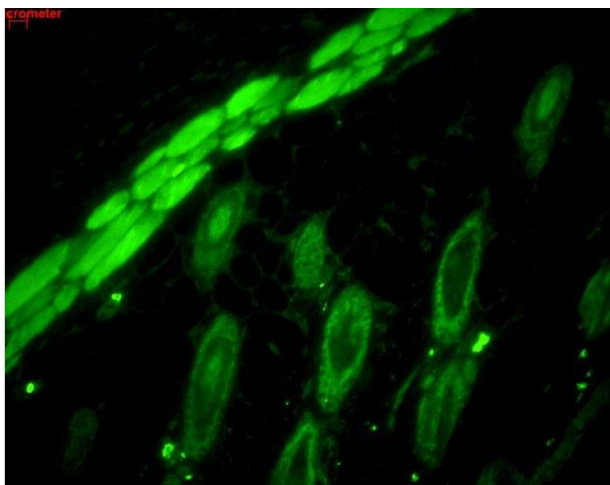
Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 . Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody 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.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody 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.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermal, dermal, HF, muscle staining. Bright dermal staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2486459.