### Background
The early region (E1) of the adenovirus genome, responsible for transforming activity, is localized within the least 11% of the viral genome and consists of two transcriptional units, E1A and E1B. Region E1A is sufficient for partial transformation and immortalization of primary cells, whereas the E1B function is normally required for complete transformation. In addition to their essential role in transformation, E1A gene products are necessary for normal levels of transcription of the other early regions of the adenovirus genome during productive infection and are able to either activate or repress the transcription of specific cellular genes. E1A oncogene proteins form specific complexes with cellular proteins. These include the Rb protein, which is the product of the retinoblastoma gene, and the human cyclin A protein. E1A immunoprecipitates also contain the cyclin dependent kinase Cdk2.

### Source
Adenovirus-2/5 E1A (M73) is a mouse monoclonal antibody raised against a bacterial trpE-E1A fusion protein.

### Product
Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### Applications
Adenovirus-2/5 E1A (M73) is recommended for detection of E1A antigens of Adenovirus-2 and Adenovirus-5 origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)) and immunofluorescence (starting dilution 1:50, dilution range 1:500-1:5000).

Molecular Weight of Adenovirus-2/5 E1A: 48-54 kDa.

### Recommended Support Reagents
To ensure optimal results, the following support reagents are recommended:
1. Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:100-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.
2. Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2023 (0.5 ml agarose/2.0 ml).

### Storage
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### Data

#### Western blot analysis of polyhistidine-tagged recombinant Adenovirus-2 E1A (13S): sc-4021 WB. Antibodies tested include Adenovirus-2/5 E1A (M73): sc-25 (A) and Adenovirus-2/5 E1A (13 S-5) sc-430 (B).

#### Adenovirus-2/5 E1A (M73) HRP: sc-25 HRP. Direct western blot analysis of bacterial E E1A recombinant Adenovirus-2/5 E1A fusion protein.

### Select Product Citations

### Research Use
For research use only, not for use in diagnostic procedures.