Adenovirus-5 hexon (PII) (E-12): sc-103370

BACKGROUND
Adenoviruses are non-enveloped, icosahedral viruses of the family Adenoviridae and contain a double-stranded, linear, non-segmented DNA genome. The adenovirus life cycle consists of an early phase and a late phase, the first of which encompasses genes that are responsible for expressing mainly nonstructural, regulatory proteins, while the latter of which is focused on producing sufficient quantities of structural proteins to pack genetic material produced by DNA replication. Adenoviruses, which exist as over 40 different serotypes, have three principal protein components within their capsid, namely the hexon, the penton and the fiber. Adenovirus-5 hexon (PII), also known as late protein 2 or PII, is a 952 amino acid viral protein that belongs to the Adenoviridae hexon protein family. Existing as a homotrimer, Adenovirus-5 hexon (PII) is synthesized during the late stages of infection and functions as one of the structural components of the viral coat.

REFERENCES

SOURCE
Adenovirus-5 hexon (PII) (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Adenovirus-5 hexon (PII) of viral origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103370 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
Adenovirus-5 hexon (PII) (E-12) is recommended for detection of Adenovirus-5 hexon (PII) of virus origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Adenovirus-5 hexon monomer: 108 kDa.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2033 and Western Blotting Luminol Reagent: sc-2783 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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

RESEARCH USE
For research use only, not for use in diagnostic procedures.

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.