

# M13 filamentous phage (aM13): sc-65380

## BACKGROUND

The filamentous bacteriophage M13 is composed of circular single-stranded DNA. 2,700 copies of the major coat protein P8 surround the virus, with five copies of two different minor coat proteins (P9, P6, P3) localizing to the ends. Infection with filamentous phages is not lethal to its host *E.coli*, as it is non-lytic. The infection causes characteristic turbid plaques in the bacteria a useful indication system for its role as a cloning vector. M13 can also be used to identify novel proteins through the process of phage display. Most recently, it has been studied as a template for the assembly of nanoarchitectures including nanoparticle arrays and nanowires. Other uses are being explored for M13 in nanostructures and nanotechnology.

## REFERENCES

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## SOURCE

M13 filamentous phage (aM13) is a mouse monoclonal antibody raised against M13 filamentous phage.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

M13 filamentous phage (aM13) is recommended for detection of M13 filamentous phage by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## 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](http://www.scbt.com) for detailed protocols and support products.



See **M13 Major Coat Protein (RL-ph1): sc-53004** for M13 Major Coat Protein antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647.