

## Technical Data Sheet

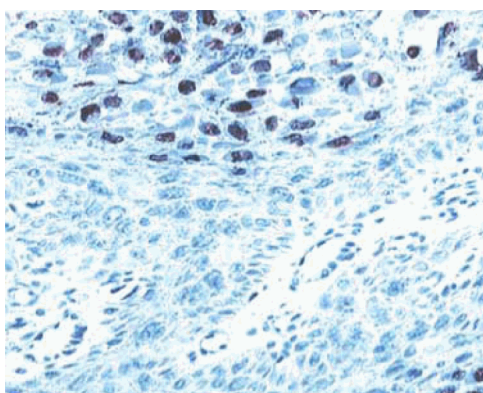
## Purified Mouse Anti-HPV-16 L1

## Product Information

Material Number:	550840
Size:	1.0 ml
Clone:	CAMVIR-1
Isotype:	Mouse IgG2a, $\kappa$
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA, goat serum, and $\leq 0.09\%$ sodium azide.

## Description

More than 60 different types of human papilloma viruses (HPVs) have been isolated. The human papilloma viruses encode three late proteins, which are produced only in terminally differentiating keratinocytes, two of which (the L1 and L2 proteins) are structural components of the virion. Virus-like particles can be assembled by over-expressing L1 and L2 in vitro, demonstrating that L1 and L2 are necessary and sufficient components of the HPV capsomeres. HPV-16 has been reported to migrate at a reduced molecular weight of ~57 kD by SDS-PAGE. The CAMVIR-1 antibody reacts with the L1 protein of HPV-16 and may also cross-react with other HPV types, such as HPV-33.



**Immunohistochemistry for HPV type 16.** A formalin-fixed, paraffin-embedded section from human cervix infected with HPV type 16 was stained with the Purified Mouse Anti-HPV 16 L1 antibody. Cells expressing the L1 protein of the HPV 16 virus can be identified by the intense brown labeling (magnification 20X).

## Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

Immunohistochemistry-formalin (antigen retrieval required)	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

## Recommended Assay Procedure:

**Immunohistochemistry:** For optimal indirect immunohistochemical staining, this antibody should be titrated, such as a 1:10 to 1:50 dilution, and visualized via a three-step staining procedure in combination with polyclonal Biotin Goat Anti-Mouse Ig (Cat. No. 550337) as the secondary antibody and Streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). Alternatively, investigators may be interested in the BD Pharmingen™ Anti-Mouse Ig HRP Detection Kit (Cat. No. 551011).

## Suggested Companion Products

Catalog Number	Name	Size	Clone
550524	Retrievagen A (pH 6.0)	1000 ml	(none)
550339	Purified Mouse IgG2a $\kappa$ Isotype Control	1.0 ml	C1.18.4
550337	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	1.0 ml	Polyclonal
550880	DAB Substrate Kit	500 tests	(none)
550946	Streptavidin HRP	50 ml	(none)
551011	Anti-Mouse Ig HRP Detection Kit	200 tests	(none)

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.

## References

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- McLean CS, Churcher MJ, Meinke J. Production and characterisation of a monoclonal antibody to human papillomavirus type 16 using recombinant vaccinia virus. *J Clin Pathol.* 1990; 43(6):488-492. (Biology)
- Zhou J, Sun XY, Stenzel DJ, Frazer IH. Expression of vaccinia recombinant HPV 16 L1 and L2 ORF proteins in epithelial cells is sufficient for assembly of HPV virion-like particles. *Virology.* 1991; 185(1):251-257. (Biology)