

Technical Data Sheet

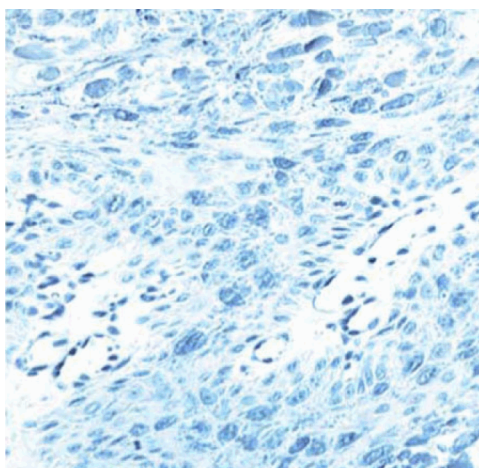
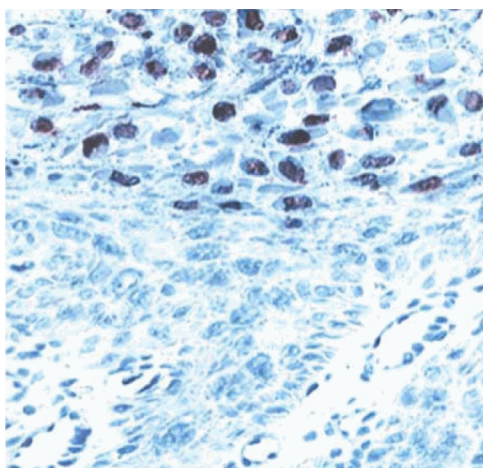
Purified Mouse Anti-L1 Protein of Human Papilloma Virus

Product Information

Material Number:	554171
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CAMVIR-1
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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.



Immunohistochemical staining for human papilloma virus (HPV) type 16, L1 protein. A formalin-fixed, paraffin-embedded tissue section from human cervix infected with HPV type 16 was stained with either the Purified Mouse Anti-HPV type 16 L1 antibody (Left panel) or with a mouse IgG2a isotype control (Right panel).

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
Western blot	Reported
Immunofluorescence	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
550339	Purified Mouse IgG2a κ Isotype Control	1.0 ml	C1.18.4
550524	Retrievagen A (pH 6.0)	1000 ml	(none)
550337	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	1.0 ml	Polyclonal
550946	Streptavidin HRP	50 ml	(none)
550880	DAB Substrate Kit	500 tests	(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. 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.
3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

de Villiers EM. Heterogeneity of the human papillomavirus group. *J Virol.* 1989; 63(11):4898-4903. (Biology)

Doorbar J, Ely S, Coleman N, Hibma M, Davies DH, Crawford L. Epitope-mapped monoclonal antibodies against the HPV16E1–E4 protein. *Virology.* 1992; 187(1):353-359. (Biology)

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. (Immunogen: Immunofluorescence, Western blot)

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)