OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AM26111PU-N Monoclonal Antibody to HPV18 E2 protein (1-83) - Aff - Purified

Alternate names: HPV-18 E2, HPV18 E2, Human papilloma virus type 18

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Human papillomaviruses (HPV) are small DNA viruses which infect epithelia of the skin and mucosa. Over 90 types have been identified and they mostly cause a variety of benign lesions such as warts and verrucae. However, some subtypes, notably types 16 and 18, 31 and 33, have been confirmed as agents which cause cervical cancer. Human Papillomavirus (HPV) E2 proteins are the major viral regulators of transcription and replication during the viral life cycle.

Uniprot ID: P06790

NCBI: 333761

Host / Isotype: Mouse / IgG

Clone: 2E7

Immunogen: Recombinant full-length HPV-18 E2-protein purified from *E. coli*.

Format:
State: Liquid purified Ig fraction
Purification: Affinity Chromatography on Protein G
Buffer System: PBS pH 7.4
Preservatives: 0.09% Sodium Azide

Applications:
ELISA, Western Blot, Immunofluorescence.
Titer using recombinant HPV-11 E2- protein:
ELISA: 1/2000.
Western Blot: 1/1000.
The antibody does **Not** work in Immunoprecipitation!
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

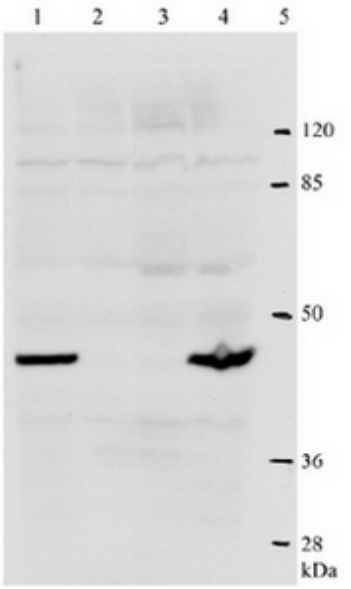
Specificity: This antibody detects HPV-18 E2 protein at 1-83.
Reacts in Western Blot and ELISA with HPV-18 native E2-protein as well recombinant E2-protein expressed in bacteria and Cos-7 cells.

Storage: Upon receipt, store (in aliquots) at -20 to -70°C.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.

General Readings:
1. Kadaja M, Sumerina A, Verst T, Ojarand M, Ustav E, Ustav M. Genomic instability of the host cell induced by the human papillomavirus replication machinery. EMBO J. 2007 Apr 18;26(8):2180-91. Epub 2007 Mar 29. PubMed PMID: 17396148.

Pictures:

Western-Blot analysis of HPV-18 E2 protein. WB was was carried out with 2E7 Mab using the lysates of U20S and Hela cells. Lanes 1 and 4 are according cells transfected with plasmid expressing HPV-11 E2 protein, lanes 2 and 3 are plain U2OS and Hela cells. Last lane represents marker.



Immunofluorescence analysis of HPV-18 E2 protein in U2OS cells. IF was carried out with Hela cells transfected with plasmid expressing HPV-18 E2 protein. All the nuclei were stained by DAPI. Green color represents nucleus localized HPV-18 E2 detected by Mab 2E7.