



Mouse Anti-HPV16 E1/E4 Monoclonal Antibody, clone UWH513 (CABT-L325M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Amino acids 36-41 of HPV16 E1/E4
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	HPV16
Clone	UWH513
Purification	Purified
Conjugate	Unconjugated
Applications	WB, IF, IHC Recommended dilution: IHC: 1:50-1:500 WB: 1:100-1:1000 IF: 1:50-1:200
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	PBS with < 0.1% sodium azide and 0.1% gelatin.
Preservative	< 0.1% sodium azide
Storage	Store at 4°C. DO NOT FREEZE.

BACKGROUND

Introduction

The human papilloma virus (HPV) family of DNA tumor viruses includes HPV16, a "high-risk" sexually-transmitted HPV that can lead to cervical, anal, vulvar, head, neck, and penile cancer. The HPV16E1/E4 protein is expressed abundantly in cells supporting viral DNA amplification, but is lost during malignant progression. HPV16E1/E4 causes G2 cell cycle arrest by associating with and preventing the nuclear entry of Cdk1/cyclin B1 complexes. HPV16E1/E4 also interacts with cyclin A and Cdk2 during the G2 phase of the cell cycle, and this association may increase the efficiency with which HPV16E1/E4 is able to prevent mitotic entry. HPV16E1/E4 also associates with keratin intermediate filaments and causes the network to collapse.

Keywords

HPV16;Human papillomavirus 16;Human papillomavirus16
