Anti-HPV16E2 [HPV16E2]

Catalogue number: 153202
Sub-type: Primary antibody
Images:

Contributor

Inventor:
Institute: A*STAR Accelerate Technologies Pte Ltd
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-HPV16E2 [HPV16E2]

Alternate name: Human papillomavirus type 16; Regulatory protein E2

Class: Polyclonal
Conjugate: Unconjugated
Description: Cervical intraepithelial neoplasia (CIN) is caused by human papillomavirus (HPV) infection and is the precursor to cervical carcinoma. The completion of the HPV productive life cycle depends on the expression of viral proteins. Initiation of the viral productive replication requires expression of the E2 viral protein that cooperates with the E1 viral DNA helicase. A novel and important role for the HPV16-E2 protein in controlling host cell cycle during malignant transformation was recently revealed. Xells expressing HPV16-E2 in vitro were arrested in prophase alongside activation of a sustained DDR signal. In vivo, HPV16-E2 protein is present in cells that express both mitotic and DDR signals specifically in CIN3 lesions, immediate precursors of cancer, suggesting that E2 may be one of the drivers of genomic instability and carcinogenesis in vivo.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity: Human
Selectivity:
Host: Rabbit
Immunogen: GST-HPV16 E2 (209365)
Immunogen UNIPROT ID: TBC
Sequence:

Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: HPV16E2

Target alternate names:

Target background: Cervical intraepithelial neoplasia (CIN) is caused by human papillomavirus (HPV) infection and is the precursor to cervical carcinoma. The completion of the HPV productive life cycle depends on the expression of viral proteins. Initiation of the viral productive replication requires expression of the E2 viral protein that cooperates with the E1 viral DNA helicase. A novel and important role for the HPV16-E2 protein in controlling host cell cycle during malignant transformation was recently revealed. Xells expressing HPV16-E2 in vitro were arrested in prophase alongside activation of a sustained DDR signal. In vivo, HPV16-E2 protein is present in cells that express both mitotic and DDR signals specifically in CIN3 lesions, immediate precursors of cancer, suggesting that E2 may be one of the drivers of genomic instability and carcinogenesis in vivo.

Molecular weight:

Ic50:

Applications

Application: IHC ; WB
Application notes:

Handling

Format: Liquid
Concentration: 0.9-1.1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: Whole serum
Storage conditions:

-15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: