

E7 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1531a

Product Information

Application	WB, IHC, E
Primary Accession	P03129
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6F3
Isotype	IgG1
Calculated MW	11022
Description	E7 transforming protein (Human papillomavirus type 16).
Immunogen	Purified recombinant fragment of E7 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	1489079
Other Names	Protein E7, E7
Dilution	WB~~1/500 - 1/2000 IHC~~1/500 - 1/2000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	E7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	E7 {ECO:0000255 HAMAP-Rule:MF_04004}
Function	Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. E7 protein has both transforming and trans-activating activities. Induces the disassembly of the E2F1 transcription factor from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Interferes with host histone deacetylation mediated by HDAC1 and HDAC2, leading to transcription activation. Also plays a role in the inhibition of both

antiviral and antiproliferative functions of host interferon alpha. Interaction with host TMEM173/STING impairs the ability of TMEM173/STING to sense cytosolic DNA and promote the production of type I interferon (IFN-alpha and IFN-beta).

Cellular Location

Host cytoplasm {ECO:0000255 | HAMAP-Rule:MF_04004, ECO:0000269 | PubMed:18996550, ECO:0000269 | PubMed:3033296}. Host nucleus {ECO:0000255 | HAMAP-Rule:MF_04004, ECO:0000269 | PubMed:18996550} Note=Predominantly found in the host nucleus. {ECO:0000255 | HAMAP- Rule:MF_04004, ECO:0000269 | PubMed:18996550}

References

1. Methods Mol Med. 2005;119:363-79. 2. Viral Immunol. 2006 Summer;19(3):468-80.

Images

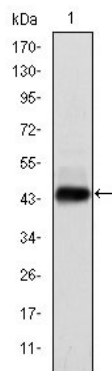


Figure 1: Western blot analysis using E7 mAb against human E7 (AA: 1-98) recombinant protein.

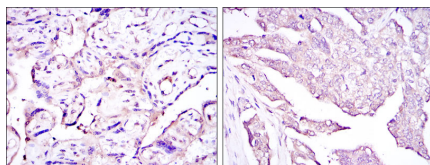


Figure 2: Immunohistochemical analysis of paraffin-embedded placenta tissues (left) and ovarian cancer (right) using E7 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.