

E7 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1531a**Specification****E7 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	P03129
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	21kDa KDa

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.

E7 Antibody - 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.

E7 Antibody - 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).

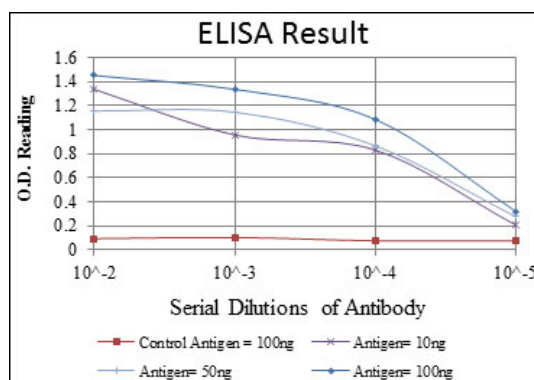
Cellular Location

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}

E7 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



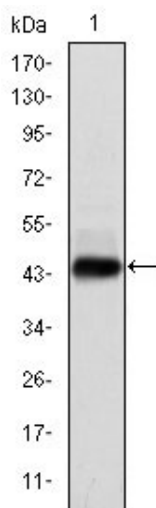


Figure 1: Western blot analysis using E7 mAb against human E7 (AA: 1-98) recombinant protein.

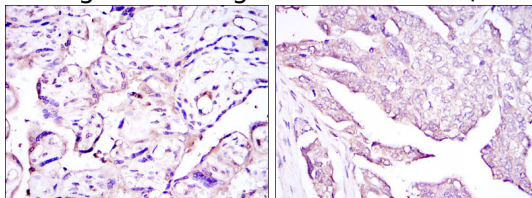


Figure 2: Immunohistochemical analysis of paraffin-embedded placenta tissues (left) and ovarian cancer (right) using E7 mouse mAb with DAB staining.

E7 Antibody - References

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