DATASHEET

HPV18 E7 Mouse Monoclonal Antibody(ARA610)

CAT. NO. ARA6309

KEY FEATURES

Target:	HPV18 E7	Clone ID:	ARA610
Source/Host:	Mouse	Reactivity:	Human
Clonality:	Monoclonal	Applications:	IHC
Storage:	at-20°C		

BACKGROUND

Human papillomavirus type 18 (HPV18) is one of the most common high-risk HPV types, associated with cervical cancer and other anogenital malignancies. The E7 oncoprotein encoded by HPV18 binds the retinoblastoma protein RB1 via its LXCXE motif, disrupting RB1-E2F1 complexes and driving G1 to S phase progression, promoting cell cycle entry and inhibiting apoptosis. Together with E6, E7 is necessary and sufficient for cellular transformation. E7 also interferes with HDAC-mediated histone deacetylation and suppresses host type I interferon production by binding STING.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:50-1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Mouse monoclonal antibody to HPV18 E7
Specificity	Recognizes the N-terminal region (aa 3-27) of HPV18 E7 oncoprotein; positive control HeLa cell lysate
Antibody Type	Primary antibody
Immunogen	Synthetic peptide within HPV18 E7 N-terminal aa 3-27
Purification	Purified IgG (kappa light chain)
Molecular Weight	Predicted: 12 kD; Observed: 15 kD
Form/Buffer	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Alternative Names	E7; Protein E7; HPV18 E7; VE7_HPV18
Gene Symbol	E7
Entrez Gene	1489089
SwissProt	P06788

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com