

Mouse mAb to HPV18 E7 (clone 10A8)

Catalogue #	A2-407-100
Immunogen:	HPV-18 E7
Immunogen Description:	Recombinant full-length HPV-18 E7-protein purified from <i>E. coli</i>
Clonality:	Mouse monoclonal
Clone:	10A8
Class:	mIgG1
Reactivity:	Reacts with HPV-18 E7-protein. Mapped to amino acids 1-35
Application:	ELISA, WB, IF, IP
Protocol:	10A8 gives a strong secondary signal in IF Monoclonal antibody working titer has to be established practically for each particular antigen and assay format
ELISA:	0,05-0,1 µg/ml
IF:	0,33-1 µg/ml
IP:	2 µg/ml
Purification:	Protein G purification
Buffer:	PBS pH 7.4, with 0.1% sodium azide
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at -20...-70°C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles
Background:	Human papillomaviruses (HPV) are small DNA viruses which infect epithelia of the skin and mucosa. Over 90 types have been identified and they mostly cause a variety of benign lesions such as warts and verrucae. However, some subtypes, notably types 16 and 18, 31 and 33,

have been confirmed as agents which cause cervical cancer. Human Papillomavirus (HPV) E7 proteins have cellular transforming and trans-activating activities

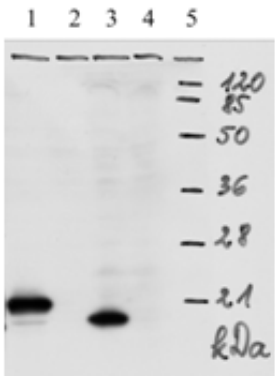


Figure 1 Western-Blot analysis of HPV-18 E7 protein. WB was carried out with 10A8 Mab using the lysates of U2OS, HeLa and SiHa cells. Line 1: U2OS with plasmid expressing E7 protein, Line 2. Non-transfected U2OS cells. Lines 3 and 4. Lysate of HeLa and SiHa cells respectively. The band in Lane 3 represents positive control (HeLa contains integrated HPV-18). Line 5. Protein size marker.

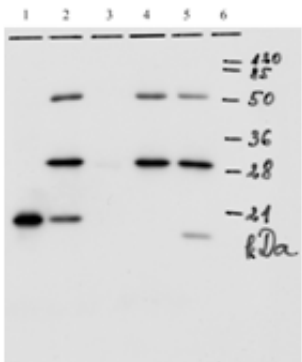


Figure 2. IP analysis of HPV-18 E7 protein. Line 1. detection of E7 protein by mAb 10A8 in U2OS lysate Line 2. lower band is precipitated E7, upper bands are light and heavy chain of mAb. Line 3. precipitation without mAb 10A8. Line 4. IP exp. with non-transfected U2OS cells. Line 5. IP exp. non-transfected HeLa cells (HeLa contains integrated HPV-18). Line 6. Protein size marker.

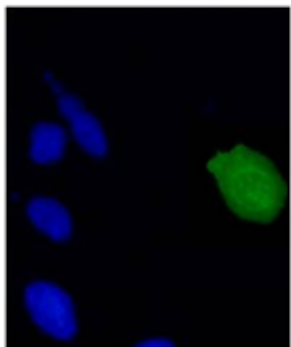


Figure 3. IF analysis of HPV-18 E7 protein in U2OS cells. IF was carried out with U2OS cells transfected with plasmid expressing HPV-18 E7 protein. All the nuclei were stained by DAPI. Green color represents nucleus-localized HPV-18