

**AP30021PU-N****Polyclonal Antibody to Adenovirus Type 9 (E4 Orf1) - Aff - Purified****Alternate names:** AD9 E4 Orf1**Quantity:** 0.1 mg**Background:** The many different serotypes of human adenoviruses (Ad) are divided into six subgroups, of which all Ad subgroup A and B and two subgroup D Ads can elicit tumors in infected rodents. Unlike the Ads from subgroup A and B, the ones from subgroup D, Ad9 and Ad10 elicit estrogen-dependent mammary tumors as opposed to undifferentiated sarcomas. In the case of Ad9, its tumorigenicity is dependent on the product of the open reading frame (ORF) 1 of the early region 4 (E4). The tumorigenic potential of Ad9 E4 Orf1 depends on a carboxyl-terminal PDZ domain-binding motif that mediates interactions with several different membrane-associated cellular proteins such as MUPP1, PATJ, MAGI-1, ZO-2 and Dlg1. It has been suggested that Ad9 E4 Orf1 may have evolved from an ancestral cellular dUTP pyrophosphatase.**Uniprot ID:** [P89079](#)**NCBI:** [P89079](#)**Host / Isotype:** Rabbit / IgG**Immunogen:** Ad-9 E4 Orf1 antibody was raised against a 16 amino acid peptide near the carboxy terminus of the Ad-9 E4 Orf1. (AP30021CP-N)**Format:** **State:** Liquid purified Ig fraction  
**Purification:** Affinity chromatography purified via peptide column  
**Buffer System:** PBS containing 0.02% sodium azide.**Applications:** ELISA.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.**Specificity:** This antibody reacts to Ad-9 E4 Orf1.**Add. Information:** Blocking peptide available: blocking peptide (AP30021CP-N)**Storage:** Store the antibody undiluted at 2-8°C.  
Shelf life: one year from despatch.**General Readings:**

1. Shenk T. Adenoviridae: the viruses and their replication, p. 2265-2300 in DM Knipe and PM Howley (ed.) Fields virology, 4th ed. Vol. 2. 2001. Lippincott-Raven Publishers, Philadelphia, PA.
2. Javier R, Rasha Jr. K, Macdonald GJ, et al. Human adenovirus type 9-induced rat mammary tumors. J. Virol. 1991; 65:3192-202.
3. Javier RT. Adenovirus type 9 E4 open reading frame 1 encodes a transforming protein required for the production of mammary tumors in rats. J Virol. 1994 Jun;68(6):3917-24. PubMed PMID: 8189528.
4. Weiss RS, Lee SS, Prasad BV, Javier RT. Human adenovirus early region 4 open reading frame 1 genes encode growth-transforming proteins that may be distantly related to dUTP pyrophosphatase enzymes. J Virol. 1997 Mar;71(3):1857-70. PubMed

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