

DM355**Monoclonal Antibody to Adenovirus Type 2 + 5 (E1A) - Supernatant****Alternate names:** Adenovirus antibody**Quantity:** 1 ml**Background:** Adenoviruses are DNA viruses generally widespread in nature that are frequently the cause of acute upper respiratory tract infections (i.e. common colds). Forty-seven known serotypes have been isolated since they were first discovered in 1953 with 3 types known to cause gastroenteritis. Several types have oncogenic potential though most cause self-limiting febrile illnesses characterised by inflammation of conjunctivae and the respiratory tract. The virus can be isolated from the majority of tonsils/adenoids surgically removed, indicating latent infections. It is not known how long the virus can persist in the body, or whether it is capable of reactivation after long periods. In patients experiencing immunosuppression (e.g. AIDS) it can be reactivated causing disease.

The adenovirus early gene products E1A is a potent stimulator of cellular proliferation, which when overexpressed can overcome the growth-inhibitory effects of TGF-beta. The E1A region encodes a series of related proteins (35-46 kD) with multifunctional capabilities and forms a specific complex with the retinoblastoma tumor suppressor gene product. The E1a and E1B regions together comprise the transforming region of adenovirus. While expression of E1A alone is sufficient to immortalize primary cells, complete transformation requires the additional expression of the E1B region.

Host / Isotype: Mouse / IgG2a**Clone:** M58+M73**Immunogen:** BALB/C mice were injected with adenovirus.**Format:** **State:** Liquid Ig fraction
Buffer System: 10 mM citrate buffer, pH 6.0 - containing sodium azide as preservative.**Applications:** Immunohistochemistry on paraffin embedded sections:
diluted of 1:50-1:75 in an ABC method (30 minutes at room temperature)
Recommended Positive Control: Adenovirus infected tissue
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.**Specificity:** This antibody reacts with adenovirus.
Cellular Localization: Nuclear
Species: Human.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Harlow et al. Mol cell Biol 6: 1579, 1986.
2. Harlow et al. J Virol 3: 533, 1985.
3. Klein et al. Science 238: 1539, 1987.

Pictures: Formalin fixed paraffin embedded human infected appendix stained with Adenovirus antibody. DM355

