

## Anti-E2a protein [5B4D-6] Standard Size Ab03728-10.0

**Isotype and Format:** Human IgG1, Kappa

**Clone Number:** 5B4D-6

**Alternative Name(s) of Target:** VEEV E2a; Envelope glycoprotein E2; Structural polyprotein; Envelope glycoprotein E2; Spike glycoprotein E2; Alphavirus; TC-83 virus; D66

**UniProt Accession Number of Target Protein:** P05674

**Published Application(s):** ELISA, IF

**Published Species Reactivity:** Venezuelan equine encephalitis virus (VEEV)

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with TC-83 vaccine strain of Venezuelan equine encephalomyelitis virus (VEEV).

**Specificity:** This antibody specifically binds the E2a epitope of the envelope glycoprotein of the Venezuelan equine encephalitis virus (VEEV), member of the family Togaviridae, genus Alphavirus. VEEV is a mosquito-borne viral pathogen that causes Venezuelan equine encephalitis or encephalomyelitis (VEE). VEE is a disease endemic in regions of Central and South America that causes sporadic outbreaks of equine and human encephalitis. VEEV can affect equine species, such as horses, donkeys, and zebras.

**Application Notes:** The binding characterization of this antibody towards Venezuelan equine encephalomyelitis virus strain TC-83 was done using ELISA (PMID: 6178209). This antibody was also used for an indirect immunofluorescence assay for the detection of VEEV in virus-infected Vero cells (PMID: 2037683).

**Antibody First Published in:** Roehrig et al. Antigenic analysis of the surface glycoproteins of a Venezuelan equine encephalomyelitis virus (TC-83) using monoclonal antibodies. Virology. 1982 Apr 30;118(2):269-78. [PMID:6178209](#)

**Note on publication:** Describes the characterization of antigenic proteins on the surface of Venezuelan equine encephalomyelitis virus (TC-83) using antibodies.

## Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:**

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.