



Human Anti-MPXV A33 Monoclonal Antibody, Clone UH12 (CABT-CS812)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	MPXV A33
Target	A33
Isotype	IgG1
Source/Host	Human
Species Reactivity	MPXV
Clone	UH12
Purification	≥95% (SDS-PAGE)
Conjugate	hFc
Applications	ELISA, LFIA, Neut
Format	Liquid
Size	1 mg
Buffer	Supplied as a 0.2 µM filtered solution of PBS, PH7.4.
Preservative	None
Storage	Store at -20°C to -80°C under sterile conditions. Avoid repeated freeze-thaw cycles.

BACKGROUND

Introduction

The A33, L1, B5, and A25 genes encode the four proteins viz. A33, L1, B5, and A25, respectively. All of these immunogens are highly homologous (> 93%) between variola, monkeypox, and vaccinia. A33 is a type II integral membrane protein present as a dimer on the EV. Some evidence suggests A33 has a role in facilitating antibody-resistant cell-to-cell spread of orthopoxviruses. The A28 gene of vaccinia virus is conserved in all poxviruses and encodes a protein that is anchored to the surface of infectious intracellular mature virions (IMV) and consequently lies beneath the additional envelope of extracellular virions and required for the virus propagation. The product of the H3L gene, p35, is another envelope protein that is an immunodominant antigen found on orthopoxvirus. Strong immune responses to p35 protein have been detected in mice, sheep, rabbits, and humans. It has also been shown that the monoclonal antibodies against A28, A33, B5, L1 and H3 are cross protective cross-protective for variola, monkeypox, and vaccinia.

Keywords

MPXV; Monkeypox Virus; Monkeypox; MPV
