

Anti-HIV GP41 [2E7 (L92E7)] Standard Size Ab02411-1.159

This chimeric mouse antibody was made using the variable domain sequences of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1-Fc fusion

Clone Number: 2E7 (L92E7)

Alternative Name(s) of Target: Glycoprotein 41; GP 41; TM; transmembrane protein 41; envelope glycoprotein gp160; env protein

UniProt Accession Number of Target Protein: P04578

Published Application(s): NTRL, ELISA

Published Species Reactivity: HIV-1

Immunogen: The original antibody was generated by immunizing Llama galama with two different types of antigens gp140 CN54 (subtype B'/C) and gp140 UG37 (subtype A).

Specificity: This antibody binds a new linear epitope in the first heptad repeat of gp41 that is only exposed in the fusion-intermediate conformation.

Application Notes: This highly potent broadly neutralizing antibody binds HIV-gp41 and is capable of neutralizing HIV strains belonging to the A, A/G, B, B/C and C subtypes. The binding of the antibody to various envelope glycoprotein was confirmed using ELISA (PMID: 22438910). A bispecific VHH with 2E7 and CD4bs VHH (J3/3E3) was reported to enhance strain specific potencies up to 1400 folds higher than the mixture of the individual VHHs (PMID: 31544844).

Antibody First Published in: Strokappe et al. Llama antibody fragments recognizing various epitopes of the cd4bs neutralize a broad range of HIV-1 subtypes A, B and C. PLoS One. (2012); 7(3): e33298.

[PMID:22438910](#)

Note on publication: Describes the generation and neutralizing properties of this antibody.

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.