Anti-HIV-1 protease [F11.2.32] Standard Size Ab00805-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa
Clone Number: F11.2.32
Alternative Name(s) of Target: HIV-1 PR; HIV1 PR; HIV1 protease
UniProt Accession Number of Target Protein: O90777
Published Application(s): neutralize, ELISA
Published Species Reactivity: HIV-1
Immunogen: F11.2.32 was prepared by generating a hybridoma cell line in which myeloma cells were fused with splenocytes derived from BALB/c mice immunized with HIV-1 PR in the presence of Freund's adjuvant. F11.2.32 was selected for its ability to bind to HIV-1 PR by ELISA.
Specificity: F11.2.32 Fab binds to HIV-1 PR with a dissociation constant of 5 nM (determined by SPR at pH5.2) at an epitope consisting of MSLPGRWKPKM (aa 36-46). HIV-1 PR is a homodimeric apartate protease that specifically cleaves the viral Gag and Gag/Pol polyprotein precursor. A correlation has been observed between the activity of the protease and the degree of infectivity, and so this protein is a major antiviral target.
Application Notes: The IgG and Fab variants of F11.2.32 are both able to strongly inhibit the catalytic activity of HIV-1 PR (IC50 ~35 nM). Inhibition occurs by distorting the native structure of the HIV-1 PR at the base of the flap region, which plays an important role in regulating access to the active site. This antibody is also able to detect HIV-1 PR by ELISA.
Antibody First Published in: Lescar et al. Preliminary crystallographic studies of an anti-HIV- 1 protease antibody that inhibits enzyme activity Protein Sci. 1996 May;5(5):966-8. PMID:8732768
Note on publication: Describes the generation of the mAb F11.2.32 and its crystallization in complex with peptide fragments of HIV-1 PR.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -

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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.

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