



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-HIV-1 protease [F11.2.32] Standard Size Ab00805-1.1

**Isotype and Format:** Mouse IgG1, 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 aspartate 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 (IC<sub>50</sub> ~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 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.