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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Integrase [scFvs 104] Standard Size Ab03529-30.11

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: scFvs 104

Alternative Name(s) of Target: IN protein; Gag-Pol polyprotein

UniProt Accession Number of Target Protein: P04585

Published Application(s): inhibition, WB, ELISA

Published Species Reactivity: HIV-1

Immunogen: The original antibody was generated by immunizing rabbits from the New Zealand white strain with HIV-1 IN protein developing a combinatorial single-chain variable fragment (scFv) library against IN. The antibody was isolated by panning against immobilized HIV-1 IN protein.

Specificity: The antibody is specific for the catalytic and C-terminal domains of IN protein. The antibody does not bind to HIV-1 PR protein. This enzyme catalyses the integration of the HIV genome into the chromosome of the host cell. The HIV-1 IN consists of a 288 amino-acid (aa) protein (32 kDa) encoded at the 3'-end of the HIV pol gene and it contains three distinct domains: N-terminal, catalytic core, and the C-terminal.

Application Notes: The specificity of the original format of the antibody was confirmed by ELISA analysis. The antibody detected the HIV-1 IN protein by western blot analysis. The scFv fragment inhibited the activity of HIV-1 IN in vitro. HIV-1 replication was inhibited by the scFv localized in cytoplasm and nucleus of HeLa cells. Further, the scFv fragment specifically inhibited HIV-1 DNA integration in Hela-P4 cells. Jurkat cell lines stably expressing scFv intrabody were employed to determine whether the intracellular expression of the scFv fragment was able to prevent HIV-1 replication. Jurkat-scFv fragment cell lines showed approximately 60%–80% inhibition of HIV-1 p24 antigen production compared with the parental Jurkat cells (da Silva et al., 2012; PMID: 23586912).

Antibody First Published in: da Silva et al. Recombinant rabbit single-chain antibodies bind to the catalytic and C-terminal domains of HIV-1 integrase protein and strongly inhibit HIV-1 replication *Biotechnol Appl Biochem.* Sep-Oct 2012;59(5):353-66. [PMID:23586912](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

Product Form

Size: 50 µg Purified antibody.

Purification:

Purified by Immobilized Metal Affinity Chromatography

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.