Anti-V5-Tag scFv (clone SV5-Pk1), His Tag | PA000320.scFv

Catalog No.: PA000320.scFv **Clone:** SV5-Pk1 **Isotype:** scFv **Valency / Fc:** Monovalent / Fc-Free

Recombinant anti-V5 tag scFv (clone SV5-Pk1) carrying a C-terminal His tag: a monovalent, Fc-free single-chain variable fragment that recognizes the GKPIPNPLLGLDST epitope with the same paratope as the parent SV5-Pk1 antibody. Its compact size, His-tag handle, and lack of Fc make it the format of choice for super-resolution and single-molecule labeling, Ni-NTA purification and immobilization, and any assay where Fc background or bivalent cross-linking must be avoided.

PRODUCT SPECIFICATIONS

Parameter	Specification
Catalog No.	PA000320.scFv
Product Name	Recombinant Anti-V5-Tag scFv (clone SV5-Pk1), His Tag
Supplier & Brand	Syd Labs, Inc. / Syd Labs
Synonyms	Anti-V5-Tag scFv, V5-Tag single-chain antibody (SV5-Pk1), His-tagged anti-V5, Clone SV5-Pk1 scFv
Summary	Recombinant single-chain variable fragment (scFv); the VH and VL domains of clone SV5-Pk1 joined by a flexible peptide linker and carrying a C-terminal His tag
Clone & Isotype	SV5-Pk1 | scFv
Specificity/Sensitivity	The 14-amino-acid sequence GKPIPNPLLGLDST derived from simian virus 5 (SV5), on V5-tagged proteins and V5 tag expression cells
Applications	ELISA, flow cytometry, immunoblotting, immunoprecipitation, immunocytochemistry, immunofluorescence, chromatin immunoprecipitation, electron microscopy, supershift assays, protein purification via the His tag, and isotype controls
Reactivity	Human, Mouse, Rat, Others.
Purification	Affinity chromatography via the C-terminal His tag
Form Of Antibody	1 mg/ml in 1x PBS.
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method.
Purity	>95% by SDS-PAGE under reducing conditions.
Shipping	The Recombinant Anti-HA-Tag scFv (clone 12CA5), His Tag is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze–thaw cycles. For maximum recovery of the product, centrifuge the original vial after thawing and before removing the cap. 1 month from date of receipt, 2 to 8°C as supplied. 12 months from date of receipt, -20°C to -70°C as supplied.
Note	Recombinant V5-Tag scFv antibodies (clone SV5-Pk1) with various isotypes; low prices for bulk order. Optimal working conditions should be determined experimentally by the investigator

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BACKGROUND OF RECOMBINANT ANTI-V5-TAG SCFV (CLONE SV5-PK1), HIS TAG

The Recombinant Anti-V5-Tag scFv (Clone SV5-Pk1), His Tag (Catalog No. PA000320.scFv) is a single-chain variable fragment in which the heavy-chain variable (VH) and light-chain variable (VL) domains of the SV5-Pk1 anti-V5 antibody are joined by a flexible peptide linker and fused to a C-terminal His tag. scFv is the smallest antibody format that retains a complete antigen-binding site, so PA000320.scFv recognizes the 14-amino-acid V5 epitope (GKPIPNPLLGLDST) with the same specificity as the parent SV5-Pk1 IgG while carrying no Fc region and only one binding site.
This design has three practical consequences. First, the fragment cannot cross-link or cluster V5-tagged targets, which keeps labeling monovalent and stoichiometric. Second, with no Fc it does not bind Fc receptors, so background stays low on Fc-receptor-rich cells. Third, the C-terminal His tag provides a built-in handle for detection and capture: the fragment can be immobilized on Ni-NTA or anti-His surfaces, purified by metal-affinity chromatography, or detected with an anti-His reagent — an important point, because a scFv contains no mouse constant regions and therefore cannot be revealed with an anti-mouse secondary antibody. Combined with a size of only roughly one-fifth of an intact IgG, these properties make the scFv well suited to super-resolution and single-molecule imaging, oriented surface capture, and assays in which avidity effects or Fc background would distort the result.

- **True single-chain format:** VH and VL joined by a flexible linker — one binding site, approximately one-fifth the size of intact IgG.
- **His-tagged handle:** Enables Ni-NTA purification, oriented immobilization, and detection with an anti-His reagent.
- **Monovalent and Fc-free:** No target cross-linking and no Fc-receptor background.
- **Same SV5-Pk1 paratope:** Identical V5 epitope recognition as the parent SV5-Pk1 antibody in a fragment format.

ORDERING & TECHNICAL SUPPORT

For batch-specific Certificate of Analysis (COA), SDS-PAGE validation data, or custom bulk volume ordering, please visit the product webpage or contact our support team:

- **Product Webpage:** https://www.ushelf.com/anti-v5-tag-scfv-clone-sv5-pk1-his-tag-pa000320-scfv/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com

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