# Anti-V5-Tag Mouse Fab Fragment (Clone SV5-Pk1) | PA000320.mf

**Catalog No.:** PA000320.mf **Clone:** SV5-Pk1 **Isotype:** Mouse Fab fragment **Valency / Fc:** Monovalent / Fc-Free (~50 kDa)

Recombinant anti-V5 tag mouse Fab fragment (clone SV5-Pk1) engineered for monovalent, Fc-free recognition of GKPIPNPLLGLDST-tagged fusion proteins. The ~50 kDa fragment binds through a single antigen-binding arm with no Fc-receptor engagement, preventing target cross-linking and delivering the lowest background for WB, IF, IP, and super-resolution / cryo-EM labeling.

## PRODUCT SPECIFICATIONS

| Parameter | Specification |
|---|---|
| **Catalog No.** | PA000320.mf |
| **Product Name** | Recombinant Anti-V5-Tag Mouse Fab Fragment (Clone SV5-Pk1) |
| **Supplier & Brand** | Syd Labs, Inc. / Syd Labs |
| **Synonyms** | Anti-V5-Tag Antibody (Fab), V5-Tag Antibody (SV5-Pk1), Clone SV5-Pk1 |
| **Summary** | Produced in mammalian cells; consists of mouse variable regions and mouse IgG2a kappa constant regions |
| **Clone & Isotype** | SV5-Pk1 \| Mouse Fab fragment |
| **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 (if conjugated with agarose or magnetic beads), and isotype controls |
| **Reactivity** | Human, Mouse, Rat, Others |
| **Purification** | Affinity-purified from supernatant of mammalian cells cultured in a chemically defined medium by affinity chromatography using protein A |
| **Form Of Antibody** | 1 mg/ml in 1x PBS |
| **Purity** | >95% by SDS-PAGE under reducing conditions |
| **Shipping** | Shipped with ice pack; upon receipt store immediately at the recommended temperature |
| **Stability & Storage** | 1 month from date of receipt, 2–8°C as supplied; 3 months from date of receipt, -20°C to -70°C as supplied. Use a manual defrost freezer; avoid repeated freeze–thaw cycles; centrifuge the vial after thawing before removing the cap for maximum recovery |
| **Note** | Recombinant V5-Tag Fab 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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## BIOLOGICAL DESCRIPTION & KEY PRODUCT HIGHLIGHTS

The Recombinant Anti-V5-Tag Mouse Fab Fragment (Clone SV5-Pk1) (Catalog No. PA000320.mf) is the monovalent, Fc-free antigen-binding fragment of the widely cited SV5-Pk1 anti-V5 antibody. It is produced in mammalian cells and comprises the mouse variable regions paired with mouse IgG2a kappa constant regions, giving a single ~50 kDa antigen-binding arm that recognizes the 14-amino-acid V5 epitope (GKPIPNPLLGLDST) with the same specificity as the parent IgG.

Because the Fc region has been removed, the fragment does not engage Fc receptors or other Fc-binding proteins. This sharply lowers background when staining Fc-receptor-rich cells such as macrophages and B cells, and it prevents the antibody from cross-linking or clustering V5-tagged targets. The smaller size also penetrates dense tissue and crowded subcellular compartments more readily and delivers more uniform, stoichiometric labeling — properties that matter for immunofluorescence, single-molecule localization microscopy (SMLM), and structural analysis of V5-tagged proteins.

- **Monovalent & Fc-Free (~50 kDa):** Single antigen-binding arm without an Fc region eliminates Fc-receptor background and prevents bivalent cross-linking or clustering of V5-tagged targets.
- **Superior Tissue & Subcellular Penetration:** Compact ~50 kDa Fab size improves access to dense tissues and crowded macromolecular complexes while reducing steric hindrance.
- **Validated Clone SV5-Pk1 Specificity:** Recognizes the 14-amino-acid SV5 V5 epitope sequence (GKPIPNPLLGLDST) across V5-tagged fusion proteins and V5 expression cells.
- **Chemically Defined Mammalian Production:** Expressed in mammalian cells and purified to >95% purity by SDS-PAGE under reducing conditions for consistent lot-to-lot performance.

## 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-mouse-fab-fragment-clone-sv5-pk1-pa000320-mf/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com

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