V5-Tag Antibody (SV5-Pk1), Human IgG1 Kappa | PA000320.h1

Catalog No.: PA000320.h1 **Clone:** SV5-Pk1 **Isotype:** Human IgG1, kappa **Valency / Fc:** Bivalent / Intact Human Fc

Recombinant anti-V5 tag monoclonal antibody (clone SV5-Pk1), humanized into a human IgG1 kappa format: the same high-affinity V5 paratope (GKPIPNPLLGLDST) grafted onto a human constant region. The human Fc makes it directly compatible with standard anti-human secondary reagents and keeps background low on mouse tissue, where anti-mouse detection would otherwise cross-react — the format of choice for human-relevant assays, immunohistochemistry, and quantitative flow cytometry.

PRODUCT SPECIFICATIONS

Parameter	Specification
Catalog No.	PA000320.h1
Product Name	Recombinant Anti-V5-Tag Monoclonal Antibody (Clone SV5-Pk1), Human IgG1 Kappa
Supplier & Brand	Syd Labs, Inc. / Syd Labs
Synonyms	Anti-V5-Tag Antibody, V5-Tag Antibody (SV5-Pk1), Clone SV5-Pk1, GKPIPNPLLGLDST epitope antibody, Humanized/Chimeric anti-V5 antibody
Summary	Recombinant anti-V5 tag monoclonal antibody (clone SV5-Pk1), humanized into a human IgG1 kappa format
Clone & Isotype	SV5-Pk1 | Human IgG1, kappa
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.
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 Monoclonal Antibody (Clone 12CA5), Human IgG1 Kappa 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.

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Parameter	Specification
Note	Recombinant V5-Tag monoclonal antibodies (clone SV5-Pk1) with various isotypes; low prices for bulk order. Optimal working conditions should be determined experimentally by the investigator

BACKGROUND OF RECOMBINANT ANTI-V5-TAG MONOCLONAL ANTIBODY (CLONE SV5-PK1), HUMAN IGG1 KAPPA

The Recombinant Anti-V5-Tag Monoclonal Antibody (Clone SV5-Pk1), Human IgG1 Kappa (Catalog No. PA000320.h1) is a humanized counterpart of the classic SV5-Pk1 anti-V5 antibody. It is produced in mammalian cells and consists of the mouse variable regions of clone SV5-Pk1 grafted onto human IgG1 kappa constant regions. The antigen-binding site is unchanged, so the antibody recognizes the 14-amino-acid V5 epitope (GKPIPNPLLGLDST) with the same high specificity as the parent clone; only the constant region has been converted to a human one.

That single change matters most when the detection system, not the target, is the limiting factor. A human IgG1 constant region is recognized by anti-human secondary reagents, which lets the antibody be used directly in workflows built around human-format detection and avoids the cross-reactivity and unspecific background that arise when an anti-mouse secondary is applied to mouse tissue. For immunohistochemistry on fixed mouse tissue, this is often the difference between clean, quantifiable signal and background that complicates analysis. The human Fc also makes the antibody a natural fit for human-relevant and cell-engineering settings, including the detection and quantitation of V5-tagged receptors by flow cytometry, while keeping the monovalent specificity of the original V5 paratope.

Key Product Highlights

- **Humanized IgG1 kappa format:** mouse SV5-Pk1 variable regions on a human constant region for improved compatibility with existing reagents and assays.
- **Anti-human secondary compatibility:** detect with standard anti-human IgG reagents instead of anti-mouse conjugates.
- **Lower background on mouse tissue:** avoids the cross-reactivity and unspecific signal that anti-mouse secondaries can produce on fixed mouse sections.
- **Same SV5-Pk1 paratope:** identical V5 epitope recognition as the full-length mouse IgG2a PA000320.m2a.
- **Recombinant consistency:** a defined sequence produced in mammalian cells and purified by Protein A for reproducible, lot-to-lot stable 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-monoclonal-antibody-sv5-pk1-human-igg1-pa000320-h1/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com

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